STATE OF NORTH CAROLINA

James G. Martin, Governor

DEPARTMENT OF HUMAN RESOURCES

David T. Flaherty, Secretary

DIVISION OF HEALTH SERVICES

Ronald H. Levine, M.D., M.P.H., State Health Director

STATE CENTER FOR HEALTH STATISTICS

Delton Atkinson, M.S.P.H., M.P.H., Director

January 1989

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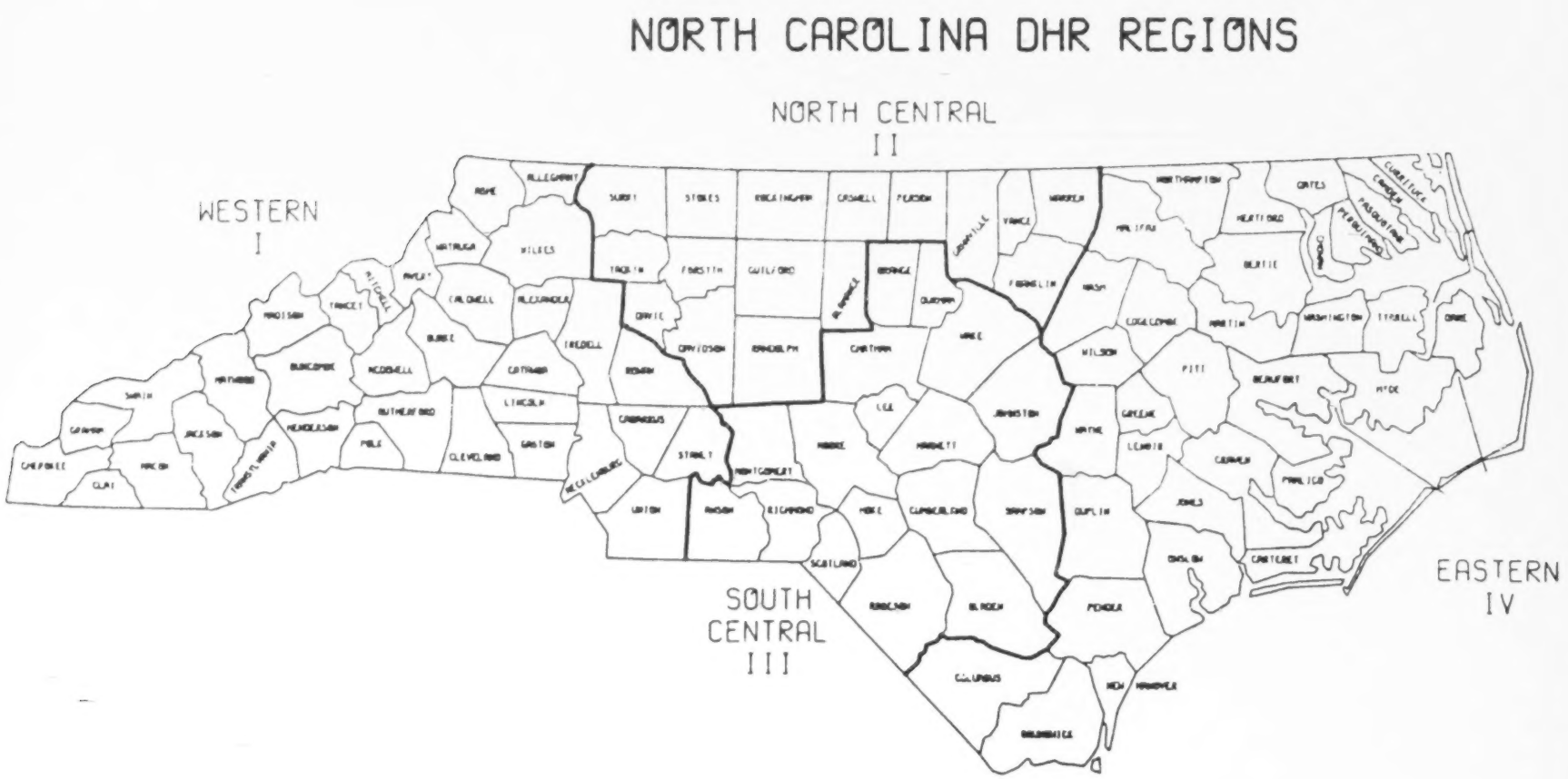

NORTH CAROLINA DHR REGIONS
NORTH CENTRAL
II
WESTERN
I
SOUTH
CENTRAL
III
EASTERN
IV

FIGURE 1.A

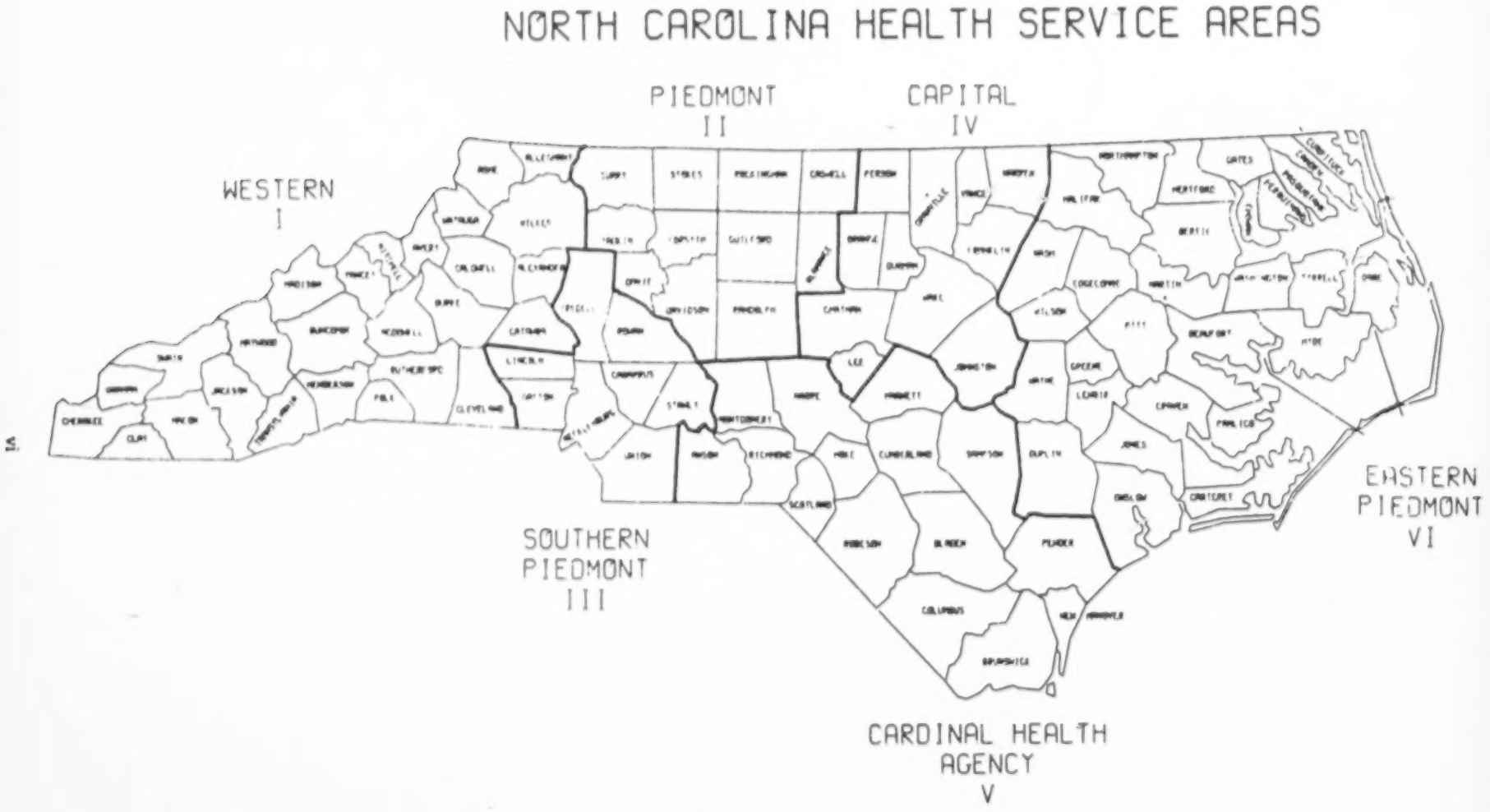

NORTH CAROLINA HEALTH SERVICE AREAS
PIEDMONT
II
CAPITAL
IV
WESTERN
I
SOUTHERN
PIEDMONT
III
EASTERN
PIEDMONT
VI
CARDINAL HEALTH
AGENCY
V

FIGURE 1.B

PREFACE

The State Center for Health Statistics has produced periodically a major publication describing North Carolina's mortality experience for a five-year period. The 1981 *Leading Causes of Mortality*, the third major publication of this type, included statistical tables, maps, and graphs as well as an analysis for each leading cause of death in North Carolina. In the interim years, the State Center publishes supportive reports of mapped and tabular data only.

This edition of *Leading Causes of Mortality* is a supportive report which should be used in conjunction with the 1981 edition for purposes of health planning and analysis. Another report that can be used is *Detailed Mortality Statistics* which provides annual counts of deaths classified according to detailed underlying causes of death and the age, race, and sex of decedents.

The tables and maps in this report show selected mortality statistics for counties, Department of Human Resources regions, Health Services Areas, and the state (see maps on preceding pages). More than a dozen of North Carolina's leading causes of mortality are depicted in these tables and maps. In addition, the site-specific cancers and total infant mortality are also tabled and mapped. Table 1 on page 4-2 describes the selected cause-of-death categories in terms of codes from *International Classification of Diseases* (Ninth Revision). Altogether, the causes included in this report accounted for 86.1 percent of all North Carolina deaths during 1987.

As with previous editions, multiple conditions present at death are included in this volume. Three diseases in particular—hypertension, atherosclerosis, and diabetes—are considered associated conditions far more often than they are considered an underlying cause. Hence, Figures 29.A through 31.B display 1983-87 county rates for deaths associated with a mention of each of these diseases, and rates corresponding to these diseases as underlying causes are not mapped in this volume.

IN USING THIS VOLUME PARTICULAR ATTENTION IS CALLED TO THE SECTIONS ON *INTERPRETATION OF MORTALITY RATES* AND *FLAGGING BIASED RATES*.

I. COMPUTATION OF MORTALITY RATES

In this report, total death rates are expressed as resident deaths per 1,000 population while all cause-specific mortality rates are expressed as resident deaths per 100,000 population. All rates in Tables 1-27 use total population in the denominator, except rates for the sex-specific cancer sites, which use male or female population in the denominator. The infant mortality rates of Table 28 and Figure 28 are computed as the number of resident deaths under one year of age per 1,000 resident live births. Population bases for the rates of this report were provided by the Office of State Budget and Management in the Governor's Office.

Vital events in this report are allocated to place of residence. For deaths of inmates of long-term institutions (mental, penal, old age, orphan, nursing home, rest home, etc.), the institution is considered the usual residence provided the decedent had resided in the institution at least one year. College students and military personnel are considered residents of the college or military community.

The following definitions apply to the rates of Tables 1-27.

Unadjusted Annual Death Rate: the annual death rate computed as resident deaths per 1,000 or 100,000 population. These rates permit the user knowledge of an area's status with respect to the observed incidence of mortality during the given year.

Unadjusted 5-Year Death Rate: the average annual death rate computed as average resident deaths per 1,000 or 100,000 average population. These rates permit the user knowledge of an area's status with respect to the observed incidence of mortality during the 5-year period. These rates are depicted in the Series A maps (e.g., Figures 2.A, 3.A, etc.) printed in blue.

Adjusted 5-Year Death Rate: the average annual age-race-sex-adjusted rates computed by the direct method. Also expressed as deaths per 1,000 or 100,000 population, these rates are those which **would be expected** if the average annual age, race, and sex composition of each county's population were the same as that estimated for the state. These rates are free of differing effects of age, race, and sex and thus permit the user knowledge of an area's status with respect to other determinants of mortality during the 5-year period. However, the user should not compare an adjusted death rate with an unadjusted death rate. Also, adjusted rates for different time periods cannot be directly compared unless they were adjusted by the same standard population. The adjusted rates are depicted in the Series B maps (e.g., Figures 2.B., 3.B., etc.) printed in red. [Note: For the four sex-specific cancer sites (female breast, cervix, ovary, and prostate), rates are adjusted for age and race and denominators are sex-specific.]

For the maps, a clustering routine* from the Statistical Analysis System (SAS) was used to group counties that are "most like each other" with respect to their unadjusted rate and then their adjusted rate (1). These maps show six levels of death rates, where level one is the lowest rate interval and level six the highest.

*In 1983 the State Center for Health Statistics conducted an evaluation of several clustering methods. It was found that one method, called "Average Linkage Method," produced tighter clusters (i.e., clusters with smaller within-cluster variances) than the other methods examined. Consequently, we plan to use this method henceforth to cluster county rates in all SCHS publications.

II. INTERPRETATION OF MORTALITY RATES

To assess an area's relative mortality conditions during a five-year period, both the unadjusted rate and the adjusted rate can be compared to the state rate for a particular cause of death. Then, provided the area's unadjusted rate represents a relatively stable situation, viz., the rate has not fluctuated widely in recent years, the following alternative diagnoses will apply:

Relative Status Of Unadjusted Rate	Relative Status Of Adjusted Rate	Diagnosis
Low	Low	Low mortality is not due to age, race, and sex factors; other mortality conditions are favorable.
Low	High	Low mortality is due to favorable age, race, and sex factors; other mortality conditions are unfavorable.
High	Low	High mortality is due to unfavorable age, race, and sex factors; other mortality conditions are favorable.
High	High	High mortality is not due to age, race, and sex factors; other mortality conditions are unfavorable.

In using adjusted rates, it is important that the user understand the reason for adjustment. The following hypothetical example illustrates. Here, A and B stand for population subgroups, e.g., whites and nonwhites, males and females, etc.

	County			State		
	Population	Deaths	Death Rate*	Population	Deaths	Death Rate*
Population A	300,000	1,000	333.3	500,000	2,500	500.0
Population B	10,000	10	100.0	800,000	1,000	125.0
Total	310,000	1,010	325.8	1,300,000	3,500	269.2

*Deaths per 100,000 population.

Compared to the state, county subgroups A and B both have lower rates, but the county as a whole (A and B combined) has a higher rate. This seemingly paradoxical situation results from two factors: different proportions of A and B in the county vs. the state population and wide differences between the rates for A vs. B. In this example, it is true that the county has the higher total rate—BUT ONLY BECAUSE THE POPULATION CONTAINS A HIGH PROPORTION OF SUBGROUP A.

Certainly, it is important for program planners to know that the county has a high rate relative to the state rate; this information is needed in determining manpower and facility needs, etc. But in assessing "risk," the researcher needs to adjust for confounding factors such as age or race. To do this, one multiplies each population-specific county rate by the corresponding "standard" population, sums these results, and divides by the total "standard." In the above example, using the state population as the standard, the computation is:

$$\frac{(1000/300{,}000 \times 500{,}000) + (10/10{,}000 \times 800{,}000)}{1{,}300{,}000} = 0.001897 \text{ or } 189.7 \text{ per } 100{,}000 \text{ population}$$

Thus, as rates specific for A and B imply, the county's rate is lower than the state's rate after adjustment for the factor represented by A and B.

Caution!

In assessing the relative mortality conditions of a county, one should be particularly aware of rates based on small numbers of deaths since, in such cases, random fluctuation in the rate may render rate comparisons risky. The reader should read very carefully the next section entitled "Flagging Biased Rates."

III. FLAGGING BIASED RATES

The age-race-sex adjusted rates in this publication that have been determined to be biased are flagged with an asterisk to suggest caution in their use. A complete description of the rationale and method for flagging biased rates can be found in the 1981 *Leading Causes of Mortality*. A short summary is provided below.

Any rate with a small number of events (deaths) in the numerator will have substantial random variability over time, or a large standard error. A useful rule of thumb is that any rate based on fewer than 20 events in the numerator may involve serious random error and should be used very cautiously in making comparisons or assessing trends (2). Many of the rates in this volume do have numerators smaller than 20.

In addition to the problem of a large standard error, the age-race-sex-adjusted rates in this volume may be **biased** due to one or more deaths in a small age-race-sex population group. One death out of an estimated population of 5, for example, would produce a death rate of 20,000 per 100,000 population. If this rate were applied to the appropriate age-race-sex group of the standard population, a very large number of expected deaths would result and the adjusted rate would be biased. In this volume an adjusted rate is flagged if: a) applying the age-race-sex-specific rates of a county for a given cause to the standard population results in more than 25 percent of the total expected deaths being generated by one cell, and b) the denominator of the rate is also less than 50 (an average of 10 per year). These criteria will catch only the worst problems. Only twenty-six out of a total of 2500 county adjusted rates in this volume are flagged by this method.

In addition to putting asterisks by those 1983-87 adjusted rates with a large bias due to an extremely high age-race-sex-specific rate, the rates have been recomputed by substituting the appropriate North Carolina age-race-sex-cause-specific rate in the problem cell. The table on the next page compares the flagged rates with the rates where the state rate has been substituted. The reader who must use one of these flagged rates is advised to use the rate in this table with the substitution instead. If the latter rate is clearly out of line with the North Carolina rate in the last column, the rate should be treated as missing data.

1983-87 Age-Race-Sex Adjusted Death Rates: Flagged Rates and Rate after Substitution of State Rate in Problem Cell

County	Cause	Problem Cell	Numerator	Denominator	Flagged Rate	Adjusted Rate With Substitution	N.C. Rate For Cause
Alleghany	Stomach Cancer	NWM 75-84	1	19	13.75	1.66	4.84
Alleghany	Lung Cancer	NWM 55-64	1	39	66.49	49.63	49.49
Alleghany	Chronic Liver Disease	NWF 55-64	1	40	32.14	6.99	9.68
Ashe	Colon Cancer	NWM 75-84	1	29	16.38	8.73	19.09
Avery	Other Ischemic Heart Disease	NWF 75-84	1	10	83.63	46.48	86.11
Avery	Stroke	NWM 75-84	1	13	52.51	36.88	72.63
Avery	Colon Cancer	NWF 65-74	1	23	48.11	14.53	19.09
Avery	Pancreatic Cancer	NWM 75-84	1	13	21.29	3.50	9.37
Avery	Chronic Lung Disease	NWM 75-84	1	13	47.70	30.34	26.50
Avery	Non-Motor-Vehicle Accidents	NWM 85+	1	0	79.22	18.28	23.43
Currituck	Stomach Cancer	NWF 85+	1	47	5.73	3.08	4.84
Graham	Stroke	NWM 65-74	1	36	44.08	31.28	72.63
Macon	Hypertension	NWM 85+	1	0	64.20	3.17	4.04
Macon	Prostate Cancer	NWM 75-84	1	31	42.74	30.61	23.39
Madison	Other Ischemic Heart Disease	NWF 85+	2	34	84.80	64.00	86.11
Madison	Pancreatic Cancer	NWM 65-74	1	27	26.26	6.33	9.37
Madison	Lung Cancer	NWF 65-74	1	35	46.91	24.83	49.49
Madison	Prostate Cancer	NWM 65-74	1	27	63.93	25.08	23.39
Madison	Diabetes	NWM 75-84	1	7	48.98	15.87	14.60
Swain	Stomach Cancer	NWM 85+	1	20	6.66	3.68	4.84
Watauga	Atherosclerosis	NWM 85+	1	5	16.88	4.84	8.65
Watauga	Pneumonia and Influenza	NWF 85+	1	19	20.70	14.48	25.61
Watauga	Chronic Lung Disease	NWM 75-84	1	28	22.48	14.80	26.50
Yadkin	Prostate Cancer	NWM 85+	1	16	29.64	22.86	23.39
Yancey	Stroke	NWF 85+	1	5	61.38	37.61	72.63
Yancey	Non-Motor-Vehicle Accidents	NWF 65-74	1	35	47.11	24.85	23.43

IV. NORTH CAROLINA MORTALITY HIGHLIGHTS

In the 1981 *Leading Causes of Mortality* extensive analyses of North Carolina's mortality experience were presented. That volume contained statistical tables, maps, and graphs as well as cause-specific discussions of trends, geographic patterns, risk factors, and recent research. We do not expect that the overall mortality picture has changed much in six years. Thus in this section, we will highlight 1987 unadjusted death rates for selected causes and recent changes in rates. The reader should consult the 1981 volume for a detailed discussion of each cause. It is our intent that the 1988 publication be an expanded version like the 1981 report.

- As shown in Table 1, a total of 55,319 North Carolinians died in 1987, for a rate of 8.62 deaths per 1,000 population. The 1987 crude death rate was .1 percent above the 1986 rate and 1.9 percent above the 1985 rate.

- The median age at death rose from 72.3 to 72.6 years, consistent with a generally steady increase in the median during the last 25 years.

- In descending order, the ten leading causes of death in 1987 were heart disease, cancer, cerebrovascular disease, accidents, chronic obstructive pulmonary disease, pneumonia and influenza, diabetes, suicide, chronic liver disease/cirrhosis, and septicemia. These causes accounted for 83 percent of total deaths in 1987.

- Of the 15 major categories of mortality presented in Table 1, nephritis/nephrosis displayed the greatest percentage change in rates between 1986 and 1987, with a decrease of 15 percent. This follows a 13 percent drop between 1985 and 1986. Other decreases included pneumonia and influenza, down 12 percent; atherosclerosis, down 10 percent; and motor vehicle accidents, down 9 percent. Increases included diabetes, up 7 percent, and chronic liver disease/cirrhosis, up 6 percent. Each of these causes also registered increases between 1985 and 1986.

- Overall, the heart disease mortality rate registered a slight decrease of .6% in 1987. The mortality rate from myocardial infraction was essentially unchanged while the rate for other ischemic heart disease decreased 2.2%.

- Cancer mortality has increased steadily over the last seven years with an increase of 3.3% in 1987. Among the nine site-specific cancers presented in this volume, those showing the greatest percentage change in rates for 1987 were cancer of the trachea, bronchus, and lung (+5.4%), cancer of the cervix uteri (+4.1%), and leukemia (-6.0%). Prostate cancer, which increased 13 percent in 1986, increased slightly (.8%) in 1987; and female breast cancer, which declined 2.8% in 1986, showed a further decrease of 2.9% in 1987.

- The overall septicemia death rate is included for the first time in Table 1. It increased 5.1% in 1987, and is currently ranked as the tenth leading cause of death. The 1988 *Leading Causes of Mortality* will have an extensive analysis of septicemia in North Carolina, including tabulations by county.

- Following marked decreases in 1983 and 1984, and increases in 1985 and 1986, the annual homicide rate for 1987 decreased slightly (1.4%).

- The suicide death rate increased marginally (.8%) in 1987, which follows declines of 5 percent in 1985 and 4 percent in 1986.

- In 1987, the North Carolina infant mortality rate increased from 11.6 to 12.1 deaths per 1,000 live births, which follows six consecutive years of decreases. The white rate increased 3 percent and the nonwhite rate increased 6 percent. The neonatal mortality rate increased by almost 8 percent in 1987, from 7.7 to 8.3 deaths per 1,000 live births. The white neonatal rate was unchanged, whereas the nonwhite rate showed an increase of nearly 17 percent. Conversely, the white postneonatal rate increased by 10 percent, while the nonwhite postneonatal mortality rate declined by slightly more than 15 percent. Overall, the postneonatal rate remained unchanged. In short, the increase in infant mortality was due primarily to increases in the white postneonatal and nonwhite neonatal mortality rates.

TABLE 1

MORTALITY STATISTICS FOR 1987 AND 1983-87

NORTH CAROLINA RESIDENTS

Cause of Death - Ninth Revision International Classification of Diseases		Number of deaths 1987	Death Rate* 1987	Death Rate* 1983-87
All Causes		55,319	8.62	8.45
Diseases of Heart	(390-398,402,404-429)	19,498	304.09	306.07
Acute Myocardial Infarction	(410)	7,706	120.18	124.83
Other Forms of Ischemic Heart Disease	(411-414)	5,822	90.80	86.11
Hypertension with or without Renal Disease	(401,403)	275	4.28	4.04
Cerebrovascular Disease	(430-438)	4,522	70.52	72.63
Atherosclerosis	(440)	509	7.93	8.65
Cancer	(140-208)	12,124	189.08	178.85
Stomach	(151)	330	5.14	4.84
Colon, Rectum, and Anus	(153,154)	1,283	20.00	19.09
Pancreas	(157)	613	9.56	9.37
Trachea, Bronchus, and Lung	(162)	3,423	53.38	49.49
Female Breast	(174)	1,017	30.61	30.36
Cervix Uteri	(180)	144	4.33	4.62
Ovary and other Uterine Adnexa	(183)	284	8.54	8.50
Prostate	(185)	784	25.37	23.39
Leukemia	(204-208)	403	6.28	6.33
Diabetes Mellitus	(250)	1,025	15.98	14.60
Pneumonia and Influenza	(480-487)	1,613	25.15	25.61
Chronic Obstructive Pulmonary Disease and Allied Conditions	(490-496)	1,794	27.97	26.50
Chronic Liver Disease and Cirrhosis	(571)	678	10.57	9.68
Septicemia	(038)	672	10.48	8.54
Nephritis, Nephrotic Syndrome, and Nephrosis	(580-589)	468	7.29	8.68
Motor Vehicle Accidents	(810-825)	1,575	24.56	24.17
All Other Accidents and Adverse Effects	(800-807, 826-949)	1,518	23.67	23.43
Suicide	(950-959)	787	12.27	12.53
Homicide	(960-978)	584	9.10	9.01

*See Section I.

V. TABLES AND FIGURES: MORTALITY STATISTICS FOR 1983-87

TABLE 2

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

TOTAL DEATHS (PER 1000 POPULATION)

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	55319	8.62	264134	8.45	8.45
REGIONS					
DHR I WESTERN	19354	8.82	92045	8.60	8.25
DHR II N. CENTRAL	12060	8.92	57765	8.74	8.34
DHR III S. CENTRAL	11568	7.65	55639	7.61	8.62
DHR IV EASTERN	12337	9.08	58684	8.84	8.93
HSA I WESTERN	10123	9.32	48640	9.10	8.14
HSA II PIEDMONT	10440	8.76	50013	8.58	8.35
HSA III S. PIEDMONT	9231	8.33	43405	8.11	8.33
HSA IV CAPITAL	7220	7.62	34704	7.67	8.25
HSA V CARDINAL	8182	8.44	39112	8.26	9.00
HSA VI EASTERN	10123	9.10	48260	8.83	8.97
COUNTIES					
1 ALAMANCE	958	9.11	4731	9.22	8.07
2 ALEXANDER	179	6.60	950	7.13	7.91
3 ALLEGHANY	105	10.79	504	10.31	7.92
4 ANSON	242	9.23	1335	10.19	8.46
5 ASHE	221	9.46	1140	9.79	8.46
6 AVERY	131	8.64	621	8.28	10.75
7 BEAUFORT	481	11.25	2274	10.61	9.34
8 BERTIE	247	11.68	1203	11.30	9.36
9 BLADEN	305	9.94	1459	9.49	9.08
10 BRUNSWICK	429	8.64	1866	8.19	8.07
11 BUNCOMBE	1754	10.22	8528	10.15	8.30
12 BURKE	577	7.56	2942	7.81	8.19
13 CABARRUS	865	9.23	4171	9.05	8.49
14 CALDWELL	567	8.03	2696	7.76	8.49
15 CAMDEN	46	7.68	278	9.47	8.66
16 CARTERET	464	9.19	2192	9.04	8.78
17 CASWELL	197	8.77	940	8.47	8.08
18 CATAWBA	951	8.21	4555	8.09	8.57
19 CHATHAM	322	8.86	1605	9.05	8.01
20 CHEROKEE	200	9.57	982	9.71	7.29
21 CHOWAN	163	12.04	792	12.04	9.07
22 CLAY	73	10.14	372	10.50	6.75
23 CLEVELAND	790	9.15	3885	9.10	8.69
24 COLUMBUS	503	9.51	2589	9.93	9.43
25 CRAVEN	514	6.40	2633	6.72	8.45
26 CUMBERLAND	1598	6.19	7227	5.67	9.84
27 CURRITUCK	147	10.73	633	9.67	9.59
28 DARE	159	7.95	712	8.12	7.67
29 DAVIDSON	1029	8.33	4764	8.02	8.39
30 DAVIE	222	8.10	1094	7.95	8.44
31 DUPLIN	448	10.75	2156	10.37	9.19
32 DURHAM	1403	8.29	6869	8.43	8.34
33 EDGECOMBE	557	9.42	2774	9.51	9.00
34 FORSYTH	2396	9.04	11056	8.56	8.25
35 FRANKLIN	326	9.26	1571	9.51	7.89
36 GASTON	1539	8.91	7404	8.69	9.05
37 GATES	105	10.84	523	11.16	8.64
38 GRAHAM	83	11.65	333	9.32	8.92
39 GRANVILLE	388	10.15	1811	9.80	8.80
40 GREENE	123	7.46	692	8.38	8.81
41 GUILFORD	2905	8.79	13935	8.50	8.36

* SEE SECTION I

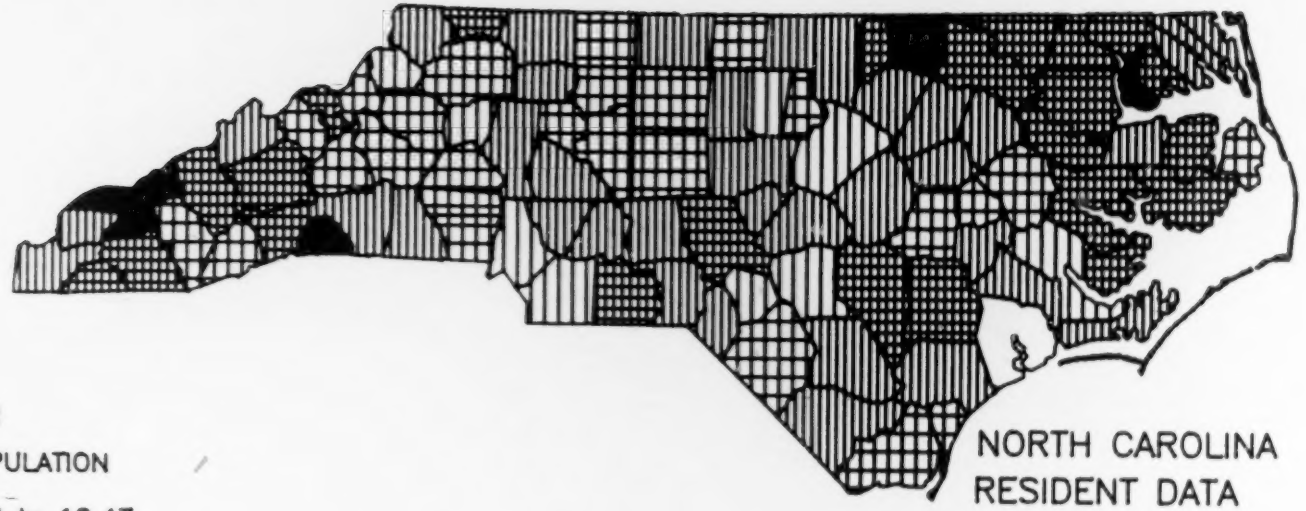
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
TOTAL DEATHS (PER 1000 POPULATION) CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	616	10.88	3026	10.80	8.75
43 HARNETT	552	8.49	2820	8.93	9.52
44 HAYWOOD	527	10.97	2454	10.28	8.18
45 HENDERSON	751	11.04	3439	10.43	7.50
46 HERTFORD	265	11.10	1291	10.81	8.40
47 HOKE	153	6.38	749	6.57	7.97
48 HYDE	78	13.45	342	11.57	9.59
49 IREDELL	807	8.97	3929	8.98	8.39
50 JACKSON	220	8.19	1077	8.01	7.73
51 JOHNSTON	767	9.68	3535	9.24	9.09
52 JONES	108	10.70	465	9.43	8.14
53 LEE	355	8.57	1817	9.03	9.23
54 LENOIR	638	10.57	2978	9.85	9.33
55 LINCOLN	396	8.34	1774	7.80	8.46
56 MCDOWELL	317	8.72	1573	8.68	7.98
57 MACON	273	11.79	1222	10.68	8.50
58 MADISON	189	10.87	839	9.75	8.07
59 MARTIN	285	10.62	1360	10.20	9.05
60 MECKLENBURG	3457	7.41	15967	7.19	8.06
61 MITCHELL	164	11.25	786	10.88	6.46
62 MONTGOMERY	197	8.12	1105	9.29	8.27
63 MOORE	663	11.52	2952	10.72	8.37
64 NASH	718	9.92	3413	9.64	9.45
65 NEW HANOVER	1060	9.11	4812	8.56	8.91
66 NORTHAMPTON	275	12.36	1268	11.33	8.95
67 ONSLOW	556	4.42	2591	4.23	8.39
68 ORANGE	484	5.61	2397	5.78	7.47
69 PAMLICO	106	9.78	556	10.23	8.33
70 PASQUOTANK	282	9.25	1388	9.42	8.34
71 PENDER	222	8.44	1157	9.40	8.46
72 PERQUIMANS	120	11.18	517	10.09	7.13
73 PERSON	288	9.29	1365	8.98	8.09
74 PITT	858	8.61	3896	8.07	9.30
75 POLK	188	12.94	895	12.46	7.72
76 RANDOLPH	777	7.73	3754	7.69	8.27
77 RICHMOND	462	10.05	2276	9.93	9.01
78 ROBESON	959	8.94	4683	8.84	9.38
79 ROCKINGHAM	807	9.39	4106	9.62	9.04
80 ROWAN	1077	10.28	5126	9.94	8.20
81 RUTHERFORD	621	10.86	2823	9.97	8.35
82 SAMPSON	509	10.04	2559	10.16	9.09
83 SCOTLAND	327	9.51	1523	9.02	10.18
84 STANLY	502	9.93	2315	9.27	8.35
85 STOKES	279	7.70	1381	7.81	8.62
86 SURRY	587	9.45	2862	9.38	8.32
87 SWAIN	106	9.94	667	12.43	9.63
88 TRANSYLVANIA	223	8.59	1037	8.15	7.28
89 TYRRELL	41	9.89	222	10.77	9.35
90 UNION	588	7.18	2719	6.95	8.10
91 VANCE	390	9.96	1996	10.42	9.17
92 WAKE	2269	6.05	10728	6.10	7.98
93 WARREN	228	13.76	1010	12.31	9.04
94 WASHINGTON	122	8.32	661	9.09	9.24
95 WATAUGA	232	6.70	1086	6.35	7.16
96 WAYNE	950	9.67	4265	8.69	9.61
97 WILKES	549	8.96	2554	8.42	8.62
98 WILSON	651	9.96	3159	9.78	9.79
99 YADKIN	285	9.51	1390	9.42	8.09
100 YANCEY	132	8.28	680	8.72	7.65

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

GENERAL MORTALITY



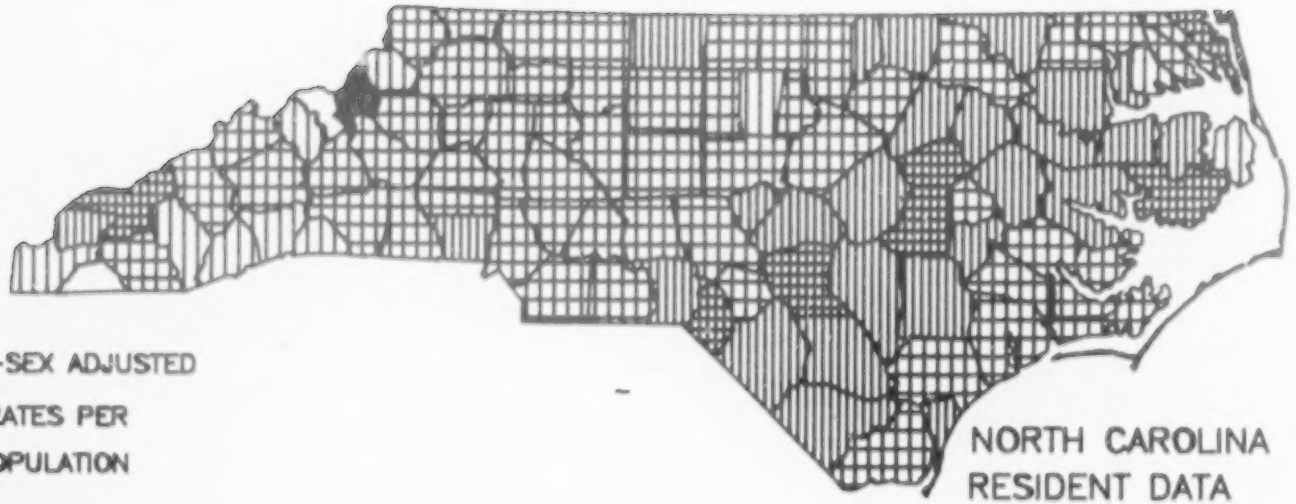
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 12.04 to 12.47
- 10.10 to 11.58
- 8.93 to 9.98
- 7.70 to 8.85
- 5.67 to 7.20
- 4.24

FIGURE 2.A

GENERAL MORTALITY



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 10.76
- 9.60 to 10.18
- 8.92 to 9.52
- 7.90 to 8.82
- 7.13 to 7.37
- 6.47 to 6.75

FIGURE 2.B

TABLE 3

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

DISEASES OF HEART

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	19498	304.09	95627	306.07	306.07
REGIONS					
DHR I WESTERN	7065	322.25	34268	320.44	299.46
DHR II N. CENTRAL	4219	312.20	21002	318.09	300.23
DHR III S. CENTRAL	3878	256.70	19318	264.32	308.73
DHR IV EASTERN	4336	319.41	21039	316.94	327.71
HSA I WESTERN	3744	344.99	18496	346.18	294.35
HSA II PIEDMONT	3619	303.80	18093	310.49	298.42
HSA III S. PIEDMONT	3321	299.96	15772	294.73	302.05
HSA IV CAPITAL	2444	258.05	12059	266.67	292.67
HSA V CARDINAL	2794	288.41	13851	292.54	328.48
HSA VI EASTERN	3576	321.47	17356	317.58	331.20
COUNTIES					
1 ALAMANCE	335	319.24	1735	338.25	288.39
2 ALEXANDER	72	265.68	376	282.51	308.24
3 ALLEGHANY	36	369.98	165	337.83	249.35
4 ANSON	104	396.77	529	403.93	325.62
5 ASHE	89	381.13	469	403.12	258.22
6 AVERY	48	316.74	253	337.60	466.27
7 BEAUFORT	194	453.75	861	401.84	354.08
8 BERTIE	84	397.50	442	415.36	354.42
9 BLADEN	107	347.59	545	354.71	354.10
10 BRUNSWICK	150	302.23	661	290.47	286.59
11 BUNCOMBE	583	339.96	2987	355.65	275.63
12 BURKE	227	297.79	1213	322.13	333.44
13 CABARRUS	314	335.05	1488	323.20	293.56
14 CALDWELL	204	289.07	1015	292.20	312.61
15 CAMDEN	14	233.95	93	316.81	275.64
16 CARTERET	172	340.69	857	353.68	337.36
17 CASWELL	67	298.40	328	295.79	284.07
18 CATAWBA	366	316.03	1789	317.86	328.79
19 CHATHAM	114	313.79	588	331.86	292.77
20 CHEROKEE	72	344.69	401	396.60	262.94
21 CHOWAN	54	398.96	263	399.97	296.70
22 CLAY	24	333.56	145	409.35	227.66
23 CLEVELAND	319	369.68	1563	366.28	343.21
24 COLUMBUS	193	365.15	1027	394.13	374.75
25 CRAVEN	165	205.55	890	227.38	303.45
26 CUMBERLAND	517	200.54	2370	186.02	369.51
27 CURRITUCK	58	423.69	255	389.82	387.71
28 DARE	41	205.08	244	278.41	258.66
29 DAVIDSON	379	307.16	1794	302.20	313.66
30 DAVIE	68	248.12	405	294.63	307.20
31 DUPLIN	171	410.62	797	383.62	343.23
32 DURHAM	432	255.27	2259	277.34	279.37
33 EDGECOMBE	191	323.03	955	327.42	327.14
34 FORSYTH	809	305.52	3955	306.26	293.32
35 FRANKLIN	125	355.06	630	381.50	313.13
36 GASTON	623	360.80	3027	355.52	369.59
37 GATES	35	361.34	183	390.54	295.34
38 GRAHAM	35	491.29	131	366.82	375.73
39 GRANVILLE	145	379.41	658	356.23	328.06
40 GREENE	47	285.41	267	323.60	368.00
41 GUILFORD	977	292.79	4834	295.18	288.92

* SEE SECTION I

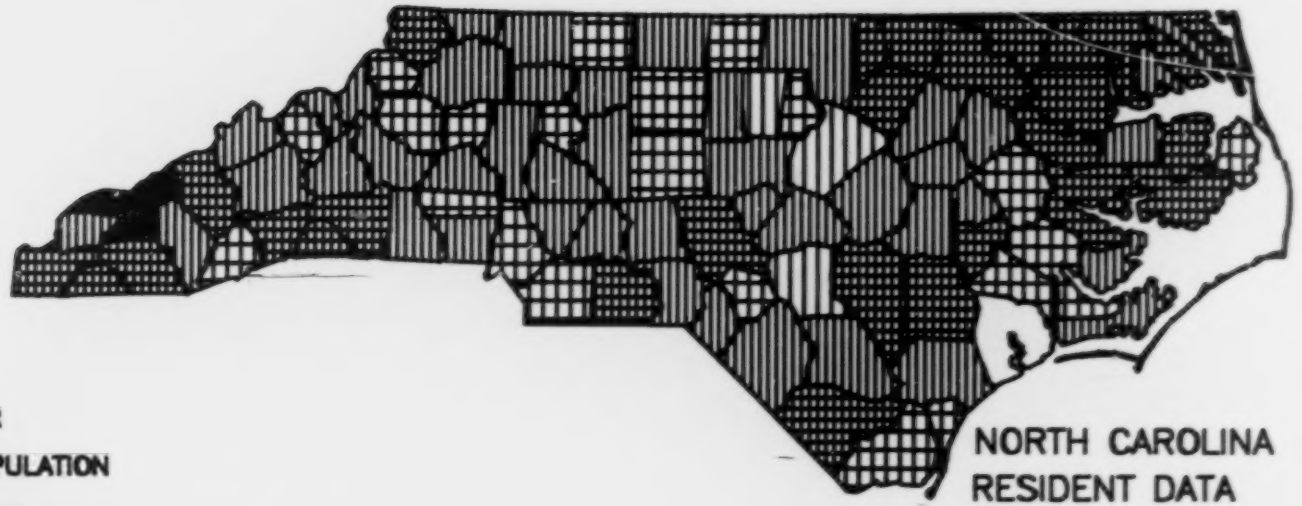
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
DISEASES OF HEART CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	222	392.32	1156	412.89	341.01
43 HARNETT	187	287.83	1036	328.15	353.99
44 HAYWOOD	209	435.22	991	415.18	319.19
45 HENDERSON	273	401.67	1237	375.31	241.41
46 HERTFORD	99	414.88	463	387.84	298.74
47 HOKE	48	200.38	265	232.46	302.37
48 HYDE	25	431.33	123	416.30	335.56
49 IREDELL	304	338.22	1444	330.32	302.82
50 JACKSON	90	335.37	418	310.91	286.77
51 JOHNSTON	311	392.50	1405	367.43	360.58
52 JONES	25	247.77	146	296.15	257.00
53 LEE	128	309.21	672	334.22	342.93
54 LENOIR	251	415.96	1126	372.47	358.14
55 LINCOLN	136	286.70	638	280.68	299.27
56 MCDOWELL	120	330.12	621	342.78	298.95
57 MACON	89	384.39	465	406.50	312.45
58 MADISON	62	356.75	290	337.04	238.47
59 MARTIN	94	350.55	500	375.29	343.86
60 MECKLENBURG	1172	251.32	5370	242.05	277.55
61 MITCHELL	49	336.14	263	364.21	208.81
62 MONTGOMERY	80	329.92	395	332.30	290.17
63 MOORE	225	391.08	1040	377.74	282.37
64 NASH	264	364.92	1262	356.48	353.20
65 NEW HANOVER	344	295.69	1604	285.42	299.31
66 NORTHAMPTON	99	445.00	449	401.24	324.60
67 ONSLOW	155	123.36	727	118.82	273.11
68 ORANGE	141	163.50	736	177.70	235.80
69 PAMLICO	26	240.07	175	322.10	254.67
70 PASQUOTANK	120	393.88	557	378.09	330.46
71 PENDER	73	277.80	391	317.91	284.56
72 PERQUIMANS	33	307.69	182	355.49	242.72
73 PERSON	98	316.26	535	352.13	314.31
74 PITT	305	306.22	1379	285.72	344.52
75 POLK	69	475.27	321	447.09	249.33
76 RANDOLPH	263	261.72	1377	282.40	294.05
77 RICHMOND	162	352.67	810	353.64	318.09
78 ROBESON	314	292.88	1655	312.59	342.12
79 ROCKINGHAM	307	357.42	1533	359.18	333.71
80 ROWAN	382	364.69	1865	361.70	287.92
81 RUTHERFORD	239	418.34	1103	389.85	311.26
82 SAMPSON	168	331.62	950	377.39	337.81
83 SCOTLAND	122	355.09	573	339.39	393.95
84 STANLY	174	344.50	900	360.43	309.99
85 STOKES	110	303.95	525	297.24	334.27
86 SURRY	209	336.68	1087	356.52	294.82
87 SWAIN	45	422.05	277	516.27	367.38
88 TRANSYLVANIA	76	292.93	351	276.19	243.97
89 TYRRELL	18	434.36	97	470.75	381.72
90 UNION	216	263.92	1040	265.89	313.56
91 VANCE	158	403.81	733	382.89	342.25
92 WAKE	718	191.68	3490	198.57	270.06
93 WARREN	74	446.85	353	430.57	325.45
94 WASHINGTON	43	293.35	225	309.66	318.92
95 WATAUGA	84	242.81	436	254.99	287.31
96 WAYNE	342	348.43	1610	328.14	379.58
97 WILKES	211	344.62	995	328.25	331.92
98 WILSON	229	350.66	1072	332.00	336.85
99 YADKIN	95	317.16	520	352.72	284.46
100 YANCEY	53	332.62	221	283.40	222.01

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

DISEASES OF THE HEART



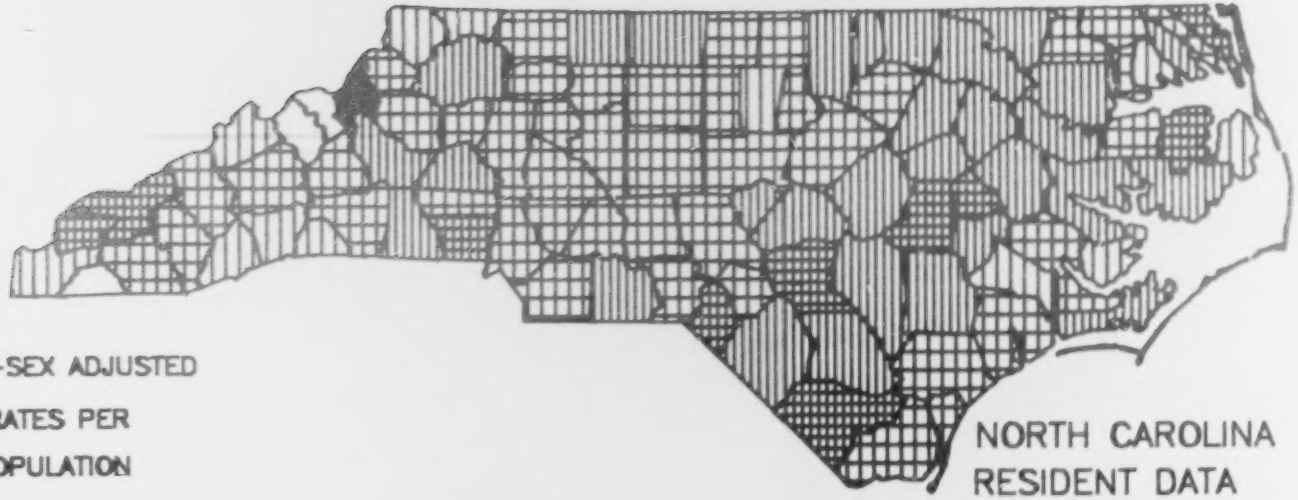
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 516.27
- 372.48 to 470.76
- 302.21 to 367.44
- 227.38 to 297.24
- 177.70 to 198.57
- 118.83

FIGURE 3.A

DISEASES OF THE HEART



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 466.27
- 367.39 to 393.96
- 324.61 to 360.58
- 270.07 to 319.19
- 235.80 to 262.95
- 208.82 to 227.67

FIGURE 3.B

TABLE 4

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

ACUTE MYOCARDIAL INFARCTION

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	7706	120.18	39002	124.83	124.83
REGIONS					
DHR I WESTERN	2923	133.32	14451	135.13	122.89
DHR II N. CENTRAL	1692	125.20	8841	133.90	126.16
DHR III S. CENTRAL	1483	98.16	7471	102.22	120.64
DHR IV EASTERN	1608	118.45	8239	124.11	129.97
HSA I WESTERN	1555	143.28	7890	147.67	123.80
HSA II PIEDMONT	1455	122.14	7655	131.36	124.75
HSA III S. PIEDMONT	1368	123.56	6561	122.60	123.03
HSA IV CAPITAL	843	89.00	4283	94.71	105.45
HSA V CARDINAL	1164	120.15	5796	122.41	137.79
HSA VI EASTERN	1321	118.75	6817	124.73	132.56
COUNTIES					
1 ALAMANCE	144	137.22	739	144.07	121.61
2 ALEXANDER	30	110.70	188	141.25	150.27
3 ALLEGHANY	19	195.27	84	171.99	149.42
4 ANSON	57	217.46	284	216.85	175.95
5 ASHE	44	188.42	198	170.19	102.18
6 AVERY	20	131.97	127	169.47	240.53
7 BEAUFORT	61	142.67	275	128.34	116.06
8 BERTIE	40	189.28	240	225.53	189.59
9 BLADEN	53	172.17	267	173.77	179.41
10 BRUNSWICK	43	86.63	239	105.02	99.06
11 BUNCOMBE	216	125.95	1105	131.56	101.39
12 BURKE	105	137.74	584	155.09	161.44
13 CABARRUS	172	183.53	789	171.37	154.52
14 CALDWELL	101	143.11	487	140.20	147.25
15 CAMDEN	4	66.84	28	95.38	82.52
16 CARTERET	70	138.65	339	139.90	127.04
17 CASWELL	23	102.43	142	128.05	128.72
18 CATAWBA	135	116.57	822	146.05	145.28
19 CHATHAM	52	143.13	275	155.21	140.04
20 CHEROKEE	27	129.26	180	178.02	120.70
21 CHOWAN	26	192.09	118	179.45	135.77
22 CLAY	6	83.39	61	172.20	96.19
23 CLEVELAND	150	173.83	651	152.55	143.00
24 COLUMBUS	112	211.90	430	165.02	158.73
25 CRAVEN	55	68.51	310	79.20	103.31
26 CUMBERLAND	171	66.32	882	69.23	136.35
27 CURRITUCK	14	102.27	80	122.29	113.97
28 DARE	15	75.03	87	99.27	81.33
29 DAVIDSON	160	129.67	808	136.11	134.90
30 DAVIE	30	109.46	201	146.22	145.91
31 DUPLIN	64	153.68	354	170.39	156.26
32 DURHAM	128	75.63	720	88.39	94.48
33 EDGECOMBE	74	125.15	390	133.71	143.36
34 FORSYTH	298	112.54	1520	117.70	113.82
35 FRANKLIN	59	167.58	281	170.16	140.93
36 GASTON	255	147.68	1241	145.75	144.77
37 GATES	10	103.24	60	128.04	102.32
38 GRAHAM	15	210.55	53	148.40	169.00
39 GRANVILLE	44	115.13	251	135.88	126.59
40 GREENE	23	139.67	120	145.43	166.38
41 GUILFORD	340	101.89	1870	114.19	112.15

* SEE SECTION I

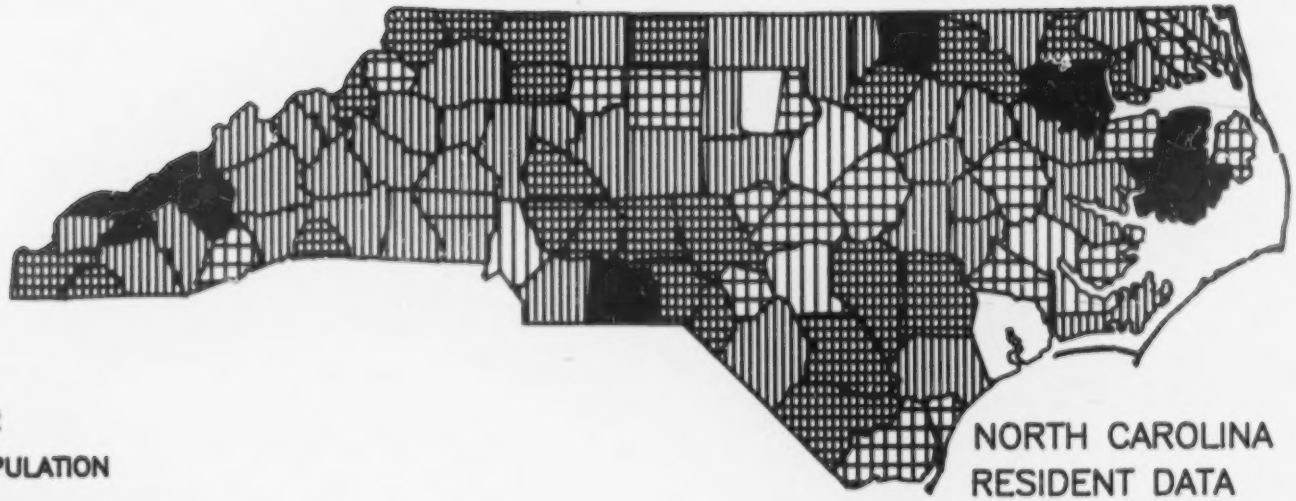
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
ACUTE MYOCARDIAL INFARCTION CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	93	164.35	487	173.94	156.59
43 HARNETT	61	93.89	339	107.37	116.16
44 HAYWOOD	105	218.65	502	210.31	175.65
45 HENDERSON	105	154.49	471	142.90	88.36
46 HERTFORD	42	176.01	208	174.23	126.47
47 HOKE	20	83.49	110	96.49	132.47
48 HYDE	10	172.53	60	203.07	175.80
49 IREDELL	130	144.63	679	155.32	139.71
50 JACKSON	37	137.87	195	145.04	136.08
51 JOHNSTON	91	114.84	437	114.28	109.03
52 JONES	4	39.64	55	111.56	99.35
53 LEE	36	86.96	230	114.39	117.01
54 LENOIR	93	154.12	439	145.21	144.63
55 LINCOLN	66	139.13	296	130.22	133.88
56 MCDOWELL	66	181.56	277	152.90	128.44
57 MACON	28	120.93	172	150.36	91.47
58 MADISON	19	109.32	114	132.49	84.72
59 MARTIN	30	111.87	183	137.35	131.07
60 MECKLENBURG	383	82.12	1668	75.18	87.23
61 MITCHELL	19	130.34	103	142.63	81.86
62 MONTGOMERY	42	173.21	214	180.03	157.48
63 MOORE	101	175.55	442	160.54	119.50
64 NASH	112	154.81	550	155.36	156.55
65 NEW HANOVER	100	85.95	570	101.42	105.73
66 NORTHAMPTON	36	161.81	172	153.70	146.15
67 ONSLOW	40	31.83	255	41.68	92.26
68 ORANGE	39	45.22	229	55.29	74.05
69 PAMLICO	10	92.33	60	110.43	88.76
70 PASQUOTANK	31	101.75	175	118.79	104.57
71 PENDER	32	121.77	183	148.79	129.59
72 PERQUIMANS	12	111.88	71	138.68	98.20
73 PERSON	41	132.31	195	128.34	115.86
74 PITT	100	100.40	477	98.83	126.58
75 POLK	28	192.86	118	164.35	90.35
76 RANDOLPH	108	107.47	635	130.22	129.37
77 RICHMOND	71	154.56	402	175.51	155.97
78 ROBESON	151	140.84	723	136.56	152.19
79 ROCKINGHAM	142	165.32	697	163.30	150.22
80 ROWAN	190	181.39	894	173.38	137.04
81 RUTHERFORD	86	150.53	422	149.15	115.62
82 SAMPSON	80	157.91	416	165.25	150.53
83 SCOTLAND	70	203.74	295	174.73	197.61
84 STANLY	72	142.55	462	185.02	157.94
85 STOKES	48	132.63	258	146.07	157.15
86 SURRY	111	178.81	536	175.80	140.18
87 SWAIN	20	187.58	107	199.42	145.47
88 TRANSYLVANIA	21	80.94	129	101.50	76.97
89 TYRRELL	10	241.31	47	228.09	192.35
90 UNION	100	122.18	532	136.01	159.35
91 VANCE	54	138.01	293	153.05	133.18
92 WAKE	260	69.41	1206	68.61	92.94
93 WARREN	39	235.50	166	202.47	161.54
94 WASHINGTON	25	170.55	75	103.22	108.14
95 WATAUGA	43	124.29	189	110.53	136.35
96 WAYNE	130	132.44	638	130.03	153.14
97 WILKES	88	143.72	453	149.44	148.06
98 WILSON	87	133.22	464	143.70	152.13
99 YADKIN	51	170.26	249	168.90	137.71
100 YANCEY	22	138.06	98	125.67	78.06

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

ACUTE MYOCARDIAL INFARCTION



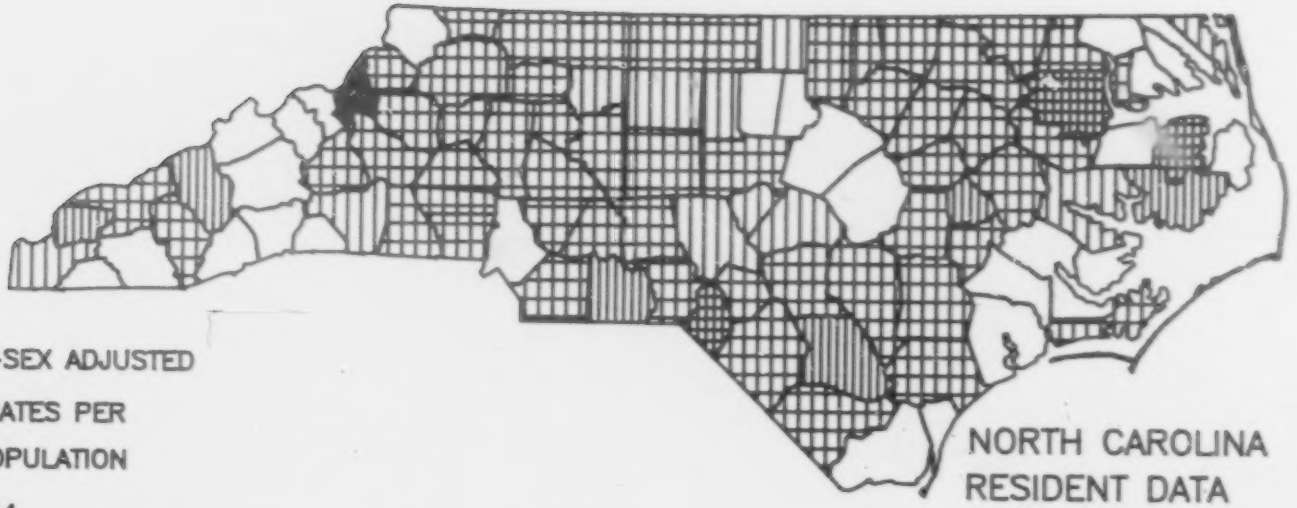
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

	199.43 to 229.00
	160.54 to 185.02
	122.30 to 155.36
	88.40 to 118.79
	68.62 to 79.20
	41.68 to 55.30

FIGURE 4.A

ACUTE MYOCARDIAL INFARCTION



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 240.54
- 189.60 to 197.62
- 166.38 to 179.41
- 126.48 to 161.54
- 112.15 to 121.61
- 74.06 to 109.03

FIGURE 4.B

TABLE 5

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

OTHER FORMS OF ISCHEMIC HEART DISEASE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
NORTH CAROLINA	5822	90.80	26904	86.11	86.11
REGIONS					
DHR I WESTERN	2049	93.46	9482	88.66	82.82
DHR II N. CENTRAL	1318	97.53	6064	91.84	86.35
DHR III S. CENTRAL	1174	77.71	5606	76.70	91.55
DHR IV EASTERN	1281	94.36	5752	86.65	91.33
HSA I WESTERN	1023	94.26	4856	90.88	75.94
HSA II PIEDMONT	1175	98.63	5480	94.04	89.94
HSA III S. PIEDMONT	1026	92.67	4626	86.44	88.79
HSA IV CAPITAL	737	77.81	3363	74.36	82.81
HSA V CARDINAL	797	82.27	3878	81.90	94.56
HSA VI EASTERN	1064	95.65	4701	86.01	91.70
COUNTIES					
1 ALAMANCE	111	105.77	596	116.19	99.17
2 ALEXANDER	22	81.18	104	78.14	89.63
3 ALLEGHANY	10	102.77	39	79.85	45.91
4 ANSON	28	106.82	122	93.15	78.11
5 ASHE	13	55.67	116	99.70	57.55
6 AVERY	5	32.99	40	53.37	83.63
7 BEAUFORT	61	142.67	252	117.61	104.95
8 BERTIE	25	118.30	7?	73.30	75.92
9 BLADEN	22	71.46	128	83.30	81.87
10 BRUNSWICK	48	96.71	192	84.37	83.68
11 BUNCOMBE	172	100.29	994	118.35	89.18
12 BURKE	62	81.33	329	87.37	88.10
13 CABARRUS	75	80.02	284	61.68	55.38
14 CALDWELL	54	76.51	262	75.42	79.76
15 CAMDEN	4	66.84	32	109.01	91.23
16 CARTERET	43	85.17	190	78.41	71.47
17 CASWELL	21	93.52	83	74.85	74.30
18 CATAWBA	91	78.57	378	67.16	71.40
19 CHATHAM	28	77.07	148	83.53	72.52
20 CHEROKEE	16	76.59	69	68.24	43.48
21 CHOWAN	11	81.27	43	65.39	47.50
22 CLAY	5	69.49	29	81.87	46.74
23 CLEVELAND	62	71.85	269	63.03	59.01
24 COLUMBUS	27	51.08	269	103.23	96.05
25 CRAVEN	62	77.23	261	66.68	92.88
26 CUMBERLAND	187	72.53	705	55.33	122.12
27 CURRITUCK	25	182.62	97	148.28	150.95
28 DARE	15	75.03	65	74.16	70.16
29 DAVIDSON	111	89.96	453	76.31	76.87
30 DAVIE	19	69.33	116	84.39	89.39
31 DUPLIN	48	115.26	200	96.26	87.82
32 DURHAM	135	79.77	[illegible]	80.78	83.48
33 EDGECOMBE	55	93.02	267	91.54	92.35
34 FORSYTH	272	102.72	1248	[illegible]	92.30
35 FRANKLIN	38	107.93	139	84.17	71.39
36 GASTON	227	131.46	1032	121.20	128.53
37 GATES	8	82.59	42	89.63	[illegible].33
38 GRAHAM	9	126.33	26	72.80	[illegible]
39 GRANVILLE	47	122.98	178	96.36	91.06
40 GREENE	11	66.80	79	95.74	112.82
41 GUILFORD	369	110.58	1562	95.38	93.53

* SEE SECTION I

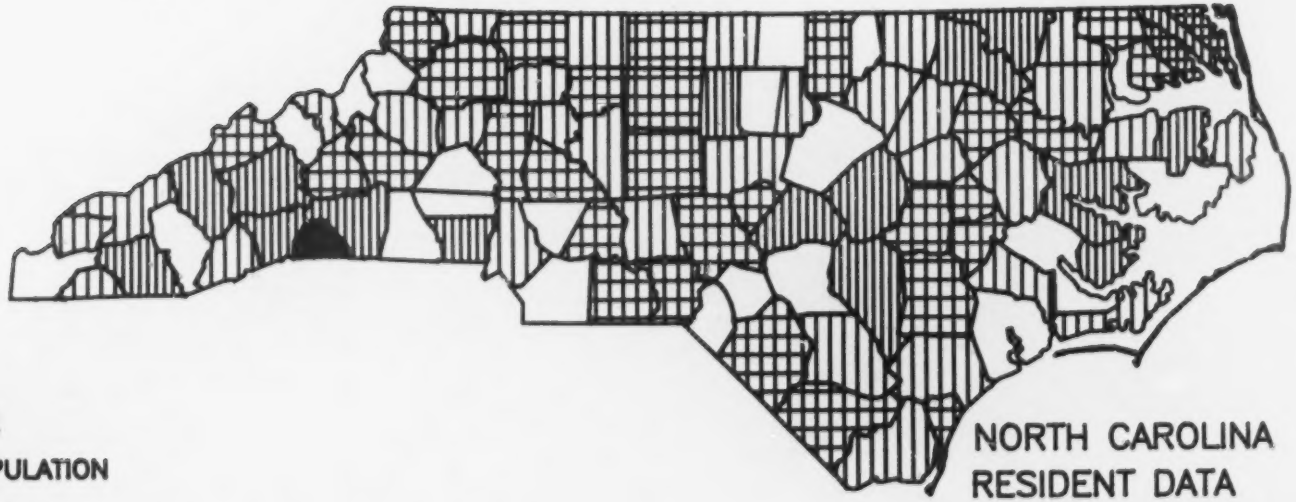
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
OTHER FORMS OF ISCHEMIC HEART DISEASE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	52	91.89	317	113.22	90.34
43 HARNETT	58	89.27	353	111.81	120.75
44 HAYWOOD	61	127.02	257	107.67	78.08
45 HENDERSON	81	119.17	395	119.84	69.67
46 HERTFORD	31	129.91	100	83.76	76.51
47 HOKE	11	45.92	67	58.77	77.00
48 HYDE	9	155.27	20	67.69	51.91
49 IREDELL	84	93.45	391	89.44	82.10
50 JACKSON	26	96.88	94	69.91	64.18
51 JOHNSTON	111	140.09	475	124.22	122.01
52 JONES	9	89.19	40	81.13	74.92
53 LEE	49	118.37	200	99.47	102.71
54 LENOIR	62	102.74	297	98.24	98.87
55 LINCOLN	34	71.67	157	69.07	71.13
56 MCDOWELL	26	71.52	188	103.77	92.00
57 MACON	32	138.21	138	120.63	87.68
58 MADISON	27	155.35	88	102.27	84.80
59 MARTIN	30	111.87	133	99.82	91.44
60 MECKLENBURG	385	82.55	1839	82.89	95.38
61 MITCHELL	12	82.32	54	74.78	42.61
62 MONTGOMERY	17	70.10	89	74.87	65.74
63 MOORE	57	99.07	258	93.71	69.67
64 NASH	70	96.75	298	84.17	85.17
65 NEW HANOVER	122	104.86	490	87.19	92.31
66 NORTHAMPTON	35	157.32	124	110.81	89.24
67 ONSLOW	74	58.89	279	45.60	104.33
68 ORANGE	49	56.82	223	53.84	71.74
69 PAMLICO	9	83.10	63	115.95	91.29
70 PASQUOTANK	51	167.39	198	134.40	122.90
71 PENDER	20	76.11	100	81.30	75.37
72 PERQUIMANS	10	93.24	53	103.52	74.35
73 PERSON	16	51.63	76	50.02	45.36
74 PITT	96	96.38	385	79.77	97.47
75 POLK	25	172.20	126	175.49	98.35
76 RANDOLPH	100	99.51	460	94.33	96.38
77 RICHMOND	52	113.20	208	90.81	83.23
78 ROBESON	85	79.28	512	96.70	114.81
79 ROCKINGHAM	67	78.00	385	90.20	83.92
80 ROWAN	92	87.83	454	88.04	69.24
81 RUTHERFORD	94	164.53	314	110.98	88.57
82 SAMPSON	46	90.80	284	112.82	103.20
83 SCOTLAND	17	49.48	101	59.82	76.88
84 STANLY	63	124.73	255	102.12	86.33
85 STOKES	35	96.71	150	84.92	92.75
86 SURRY	50	80.54	305	100.03	83.76
87 SWAIN	7	65.65	45	83.87	62.45
88 TRANSYLVANIA	17	65.52	91	71.60	70.00
89 TYRRELL	5	120.65	24	116.47	103.19
90 UNION	66	80.64	214	54.71	64.83
91 VANCE	30	76.67	126	65.81	62.61
92 WAKE	222	59.26	1075	61.16	84.56
93 WARREN	12	72.46	65	79.28	56.26
94 WASHINGTON	10	68.22	57	78.44	79.88
95 WATAUGA	16	46.25	90	52.63	62.91
96 WAYNE	83	84.56	448	91.30	103.55
97 WILKES	58	94.73	269	88.74	93.29
98 WILSON	60	91.87	259	80.21	83.11
99 YADKIN	20	66.77	122	82.75	63.41
100 YANCEY	20	125.51	52	66.68	40.63

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

OTHER ISCHEMIC HEART DISEASE



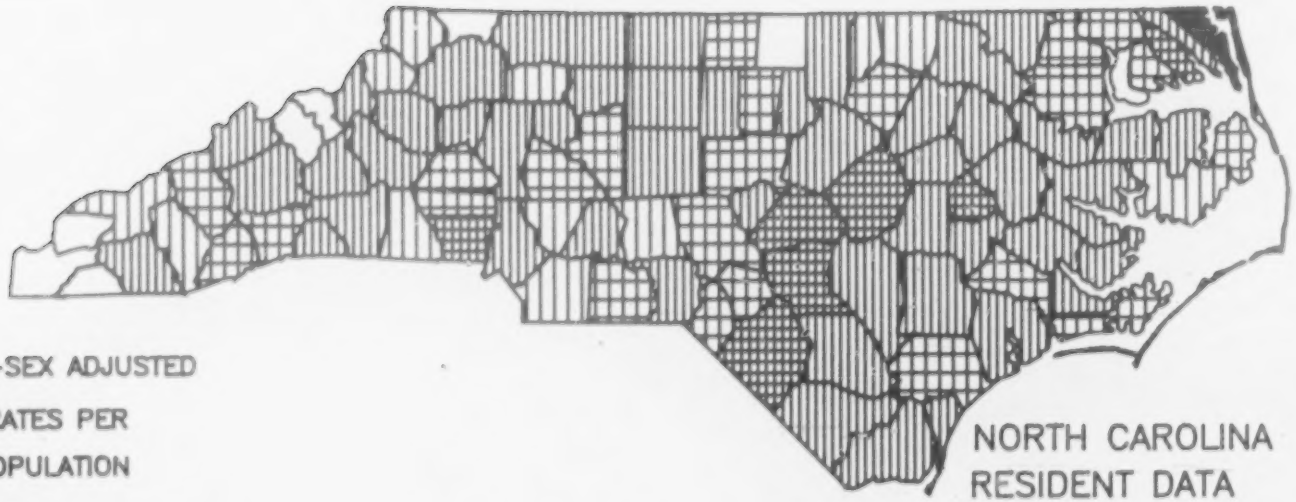
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

175.49
134.40 to 148.29
107.67 to 124.22
87.12 to 103.77
71.61 to 84.93
45.60 to 69.92

FIGURE 5.A

OTHER ISCHEMIC HEART DISEASE



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

5-25 W

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 150.96
- 112.83 to 128.54
- 81.88 to 104.96
- 69.92 to 78.89
- 51.92 to 65.75
- 40.64 to 47.51

FIGURE 5.B

TABLE 6

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

HYPERTENSION WITH OR WITHOUT RENAL DISEASE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	275	4.28	1264	4.04	4.04
REGIONS					
DHR I WESTERN	74	3.37	375	3.50	3.89
DHR II N. CENTRAL	68	5.03	283	4.28	4.15
DHR III S. CENTRAL	63	4.17	307	4.20	4.40
DHR IV EASTERN	70	5.15	299	4.50	3.95
HSA I WESTERN	40	3.68	194	3.63	3.87
HSA II PIEDMONT	58	4.86	239	4.10	4.25
HSA III S. PIEDMONT	34	3.07	181	3.38	3.77
HSA IV CAPITAL	41	4.32	181	4.00	3.92
HSA V CARDINAL	40	4.12	214	4.51	4.47
HSA VI EASTERN	62	5.57	255	4.66	4.03
COUNTIES					
1 ALAMANCE	10	9.52	29	5.65	5.11
2 ALEXANDER	1	3.69	6	4.50	6.29
3 ALLEGHANY	0	0.00	0	0.00	0.00
4 ANSON	0	0.00	3	2.29	1.21
5 ASHE	1	4.28	3	2.57	1.57
6 AVERY	0	0.00	1	1.33	1.07
7 BEAUFORT	6	14.03	15	7.00	4.75
8 BERTIE	1	4.73	6	5.63	3.62
9 BLADEN	1	3.24	9	5.85	4.02
10 BRUNSWICK	1	2.01	4	1.75	1.63
11 BUNCOMBE	10	5.83	49	5.83	5.15
12 BURKE	0	0.00	9	2.39	2.11
13 CABARRUS	3	3.20	17	3.69	3.88
14 CALDWELL	3	4.25	15	4.31	4.67
15 CAMDEN	1	16.71	1	3.40	3.47
16 CARTERET	2	3.96	6	2.47	3.42
17 CASWELL	1	4.45	5	4.50	3.52
18 CATAWBA	5	4.31	20	3.55	4.95
19 CHATHAM	1	2.75	4	2.25	1.82
20 CHEROKEE	0	0.00	1	0.98	0.64
21 CHOWAN	0	0.00	7	10.64	9.83
22 CLAY	0	0.00	2	5.64	3.04
23 CLEVELAND	6	6.95	15	3.51	3.20
24 COLUMBUS	1	1.89	10	3.83	3.11
25 CRAVEN	5	6.22	15	3.83	4.34
26 CUMBERLAND	12	4.65	46	3.61	6.14
27 CURRITUCK	0	0.00	1	1.52	1.55
28 DARE	2	10.00	3	3.42	6.57
29 DAVIDSON	4	3.24	15	2.52	2.74
30 DAVIE	2	7.29	4	2.91	3.50
31 DUPLIN	5	12.00	12	5.77	3.68
32 DURHAM	9	5.31	46	5.64	4.79
33 EDGECOMBE	4	6.76	15	5.14	3.52
34 FORSYTH	15	5.66	73	5.65	5.26
35 FRANKLIN	1	2.84	5	3.02	2.03
36 GASTON	3	1.73	18	2.11	2.55
37 GATES	1	10.32	4	8.53	6.09
38 GRAHAM	0	0.00	0	0.00	0.00
39 GRANVILLE	1	2.61	5	3.24	2.33
40 GREENE	0	0.00	3	3.63	2.57
41 GUILFORD	12	3.59	56	3.41	3.40

* SEE SECTION I

MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
HYPERTENSION WITH OR WITHOUT RENAL DISEASE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	2	3.53	14	5.00	3.41
43 HARNETT	1	1.53	15	4.75	4.97
44 HAYWOOD	4	8.32	14	5.86	10.56
45 HENDERSON	2	2.94	15	4.55	5.46
46 HERTFORD	2	8.38	7	5.86	2.00
47 HOKE	1	4.17	4	3.50	1.83
48 HYDE	1	17.25	3	10.15	5.96
49 IREDELL	2	2.22	15	3.43	3.59
50 JACKSON	1	3.72	2	1.48	1.27
51 JOHNSTON	1	1.26	14	3.66	3.59
52 JONES	0	0.00	3	6.08	5.24
53 LEE	2	4.83	12	5.96	6.13
54 LENOIR	2	3.31	16	5.29	4.45
55 LINCOLN	1	2.10	2	0.87	1.67
56 MCDOWELL	2	5.50	10	5.51	6.58
57 MACON	3	12.95	8	6.99	64.20
58 MADISON	0	0.00	2	2.32	1.39
59 MARTIN	1	3.72	7	5.25	4.24
60 MECKLENBURG	17	3.64	87	3.92	4.31
61 MITCHELL	0	0.00	0	0.00	0.00
62 MONTGOMERY	0	0.00	12	10.09	9.02
63 MOORE	1	1.73	17	6.17	4.78
64 NASH	4	5.52	8	2.25	2.11
65 NEW HANOVER	3	2.57	19	3.38	3.48
66 NORTHAMPTON	5	22.47	7	6.25	4.71
67 ONSLOW	3	2.38	17	2.77	6.90
68 ORANGE	2	2.31	13	3.13	3.79
69 PAMLICO	1	9.23	1	1.84	1.01
70 PASQUOTANK	0	0.00	3	2.03	1.65
71 PENDER	3	11.41	11	8.94	5.83
72 PERQUIMANS	1	9.32	10	19.53	9.09
73 PERSON	2	6.45	7	4.60	3.20
74 PITT	5	5.02	25	5.17	5.22
75 POLK	0	0.00	0	0.00	0.00
76 RANDOLPH	1	0.99	10	2.05	2.34
77 RICHMOND	3	6.53	9	3.92	3.42
78 ROBESON	3	2.79	30	5.66	5.04
79 ROCKINGHAM	7	8.14	23	5.38	5.31
80 ROWAN	6	5.72	24	4.65	4.14
81 RUTHERFORD	0	0.00	12	4.24	4.80
82 SAMPSON	3	5.92	11	4.36	3.36
83 SCOTLAND	7	20.37	14	8.29	6.93
84 STANLY	1	1.97	8	3.20	3.78
85 STOKES	0	0.00	6	3.39	4.49
86 SURRY	5	8.05	15	4.91	4.28
87 SWAIN	0	0.00	1	1.86	1.94
88 TRANSYLVANIA	1	3.85	3	2.36	1.48
89 TYRRELL	1	24.13	1	4.85	4.53
90 UNION	1	1.22	10	2.55	2.96
91 VANCE	3	7.66	18	9.40	5.93
92 WAKE	16	4.27	48	2.73	3.60
93 WARREN	3	18.11	8	9.75	2.60
94 WASHINGTON	0	0.00	5	6.88	7.28
95 WATAUGA	0	0.00	2	1.16	0.96
96 WAYNE	2	2.03	23	4.68	3.69
97 WILKES	1	1.63	2	0.65	0.55
98 WILSON	5	7.65	17	5.26	4.30
99 YADKIN	1	3.33	3	2.03	1.55
100 YANCEY	0	0.00	2	2.56	1.52

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

TABLE 7

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CEREBROVASCULAR DISEASE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
NORTH CAROLINA	4522	70.52	22694	72.63	72.63
REGIONS					
DHR I WESTERN	1539	70.19	7634	71.38	68.60
DHR II N. CENTRAL	1013	74.96	5042	76.36	71.91
DHR III S. CENTRAL	912	60.37	4734	64.77	74.85
DHR IV EASTERN	1058	77.93	5284	79.60	79.65
HSA I WESTERN	796	73.34	3867	72.37	65.00
HSA II PIEDMONT	868	72.86	4372	75.02	72.09
HSA III S. PIEDMONT	743	67.11	3767	70.39	73.23
HSA IV CAPITAL	545	57.54	2762	61.07	65.73
HSA V CARDINAL	699	72.15	3629	76.64	85.18
HSA VI EASTERN	871	78.30	4297	78.62	78.38
COUNTIES					
1 ALAMANCE	76	72.42	401	78.17	67.77
2 ALEXANDER	12	44.28	63	47.33	49.00
3 ALLEGHANY	8	82.21	41	83.94	60.25
4 ANSON	18	68.67	116	88.57	69.44
5 ASHE	14	59.95	74	63.60	56.41
6 AVERY	9	59.39	32	42.70	52.51
7 BEAUFORT	42	98.23	212	98.94	85.73
8 BERTIE	26	123.03	109	102.43	82.93
9 BLADEN	25	81.21	140	91.11	85.77
10 BRUNSWICK	26	52.38	134	58.88	59.85
11 BUNCOMBE	161	93.88	786	93.58	74.27
12 BURKE	45	59.03	195	51.78	55.92
13 CABARRUS	60	64.02	373	81.01	77.56
14 CALDWELL	41	58.09	180	51.82	55.70
15 CAMDEN	3	50.13	24	81.75	73.14
16 CARTERET	24	47.53	141	58.19	64.61
17 CASWELL	14	62.35	92	82.96	81.65
18 CATAWBA	86	74.25	343	60.94	69.87
19 CHATHAM	19	52.29	134	75.62	63.67
20 CHEROKEE	15	71.81	80	79.12	57.43
21 CHOWAN	22	162.54	92	139.91	94.08
22 CLAY	6	83.39	22	62.10	38.83
23 CLEVELAND	50	57.94	283	66.31	64.03
24 COLUMBUS	41	77.57	241	92.48	91.58
25 CRAVEN	41	51.07	202	51.60	69.35
26 CUMBERLAND	113	43.83	603	47.33	98.33
27 CURRITUCK	7	51.13	39	59.62	59.30
28 DARE	13	65.02	47	53.62	49.39
29 DAVIDSON	77	62.40	358	60.30	67.11
30 DAVIE	19	69.33	88	64.02	72.47
31 DUPLIN	45	108.05	207	99.63	85.59
32 DURHAM	95	56.13	491	60.28	57.25
33 EDGECOMBE	63	106.55	305	104.57	94.22
34 FORSYTH	196	74.02	885	68.53	64.21
35 FRANKLIN	32	90.89	125	75.69	60.14
36 GASTON	121	70.07	640	75.16	78.25
37 GATES	6	61.94	28	59.75	45.81
38 GRAHAM	4	56.14	17	47.60	44.08
39 GRANVILLE	41	107.28	172	93.11	79.79
40 GREENE	11	66.80	63	76.35	75.10
41 GUILFORD	238	71.32	1307	79.81	76.33

* SEE SECTION I

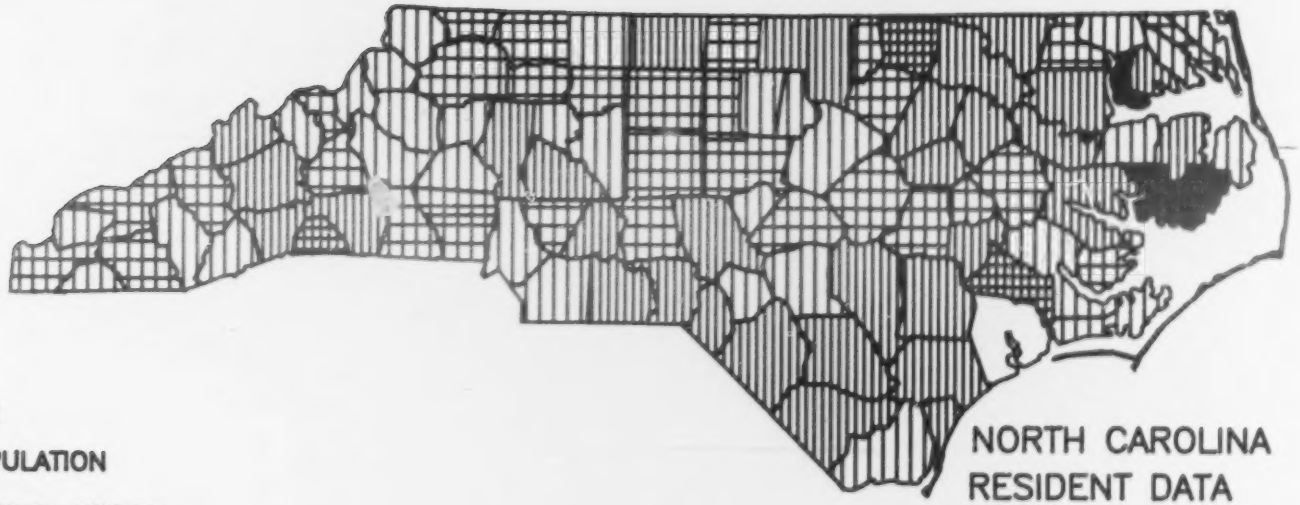
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CEREBROVASCULAR DISEASE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	46	81.29	290	103.58	79.09
43 HARNETT	41	63.10	217	68.73	74.34
44 HAYWOOD	42	87.46	204	85.46	70.98
45 HENDERSON	61	89.75	316	95.87	60.35
46 HERTFORD	16	67.05	90	75.39	55.63
47 HOKE	10	41.74	58	50.87	57.82
48 HYDE	11	189.78	38	128.61	93.07
49 IREDELL	65	72.31	385	88.07	80.48
50 JACKSON	10	37.26	66	49.09	42.51
51 JOHNSTON	56	70.67	265	69.30	68.65
52 JONES	10	99.10	58	117.65	96.58
53 LEE	25	60.39	128	63.66	65.67
54 LENOIR	46	76.23	291	96.26	89.97
55 LINCOLN	42	88.54	172	75.66	84.32
56 MCDOWELL	24	66.02	135	74.51	74.96
57 MACON	20	86.38	82	71.68	49.98
58 MADISON	17	97.81	89	103.43	94.80
59 MARTIN	33	123.06	137	102.82	81.55
60 MECKLENBURG	239	51.25	1270	57.24	65.89
61 MITCHELL	12	82.32	61	84.47	47.33
62 MONTGOMERY	12	49.48	95	79.92	68.10
63 MOORE	62	107.76	291	105.69	80.45
64 NASH	60	82.93	308	87.00	83.58
65 NEW HANOVER	102	87.67	500	88.97	92.67
66 NORTHAMPTON	27	121.36	119	106.34	72.08
67 ONSLOW	34	27.06	176	28.76	70.51
68 ORANGE	28	32.46	196	47.32	62.21
69 PAMLICO	11	101.56	45	82.82	64.17
70 PASQUOTANK	19	62.36	95	64.48	54.83
71 PENDER	18	68.50	112	91.06	82.29
72 PERQUIMANS	11	102.56	51	99.61	60.70
73 PERSON	32	103.26	134	88.19	78.38
74 PITT	79	79.31	349	72.31	81.71
75 POLK	15	103.32	87	121.17	64.66
76 RANDOLPH	69	68.66	398	81.62	87.75
77 RICHMOND	41	89.25	239	104.34	91.68
78 ROBESON	97	90.47	480	90.66	93.90
79 ROCKINGHAM	89	103.61	403	94.42	88.55
80 ROWAN	111	105.97	478	92.70	73.23
81 RUTHERFORD	53	92.77	269	95.07	77.49
82 SAMPSON	60	118.43	253	100.50	86.42
83 SCOTLAND	33	96.05	150	88.84	107.21
84 STANLY	66	130.67	236	94.51	88.57
85 STOKES	24	66.31	105	59.44	66.07
86 SURRY	39	62.82	220	72.15	56.28
87 SWAIN	4	37.51	43	80.14	58.41
88 TRANSYLVANIA	12	46.25	76	59.80	44.29
89 TYRRELL	3	72.39	19	92.21	84.83
90 UNION	39	47.65	213	54.45	66.14
91 VANCE	27	69.00	146	76.26	58.28
92 WAKE	177	47.25	878	49.95	69.23
93 WARREN	13	78.50	93	113.43	58.86
94 WASHINGTON	7	47.75	43	59.17	68.62
95 WATAUGA	18	52.03	74	43.27	46.90
96 WAYNE	79	80.48	395	80.50	88.07
97 WILKES	49	80.03	202	66.64	75.08
98 WILSON	76	116.37	324	100.34	98.17
99 YADKIN	27	90.14	115	78.00	68.15
100 YANCEY	3	50.20	47	60.27	61.38

* SEE SECTION I

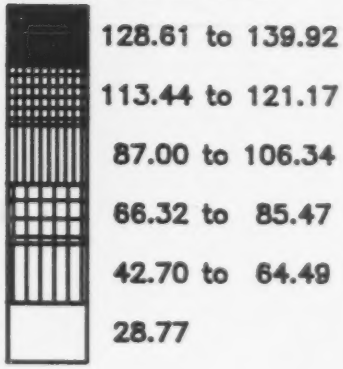
STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CEREBROVASCULAR DISEASE



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

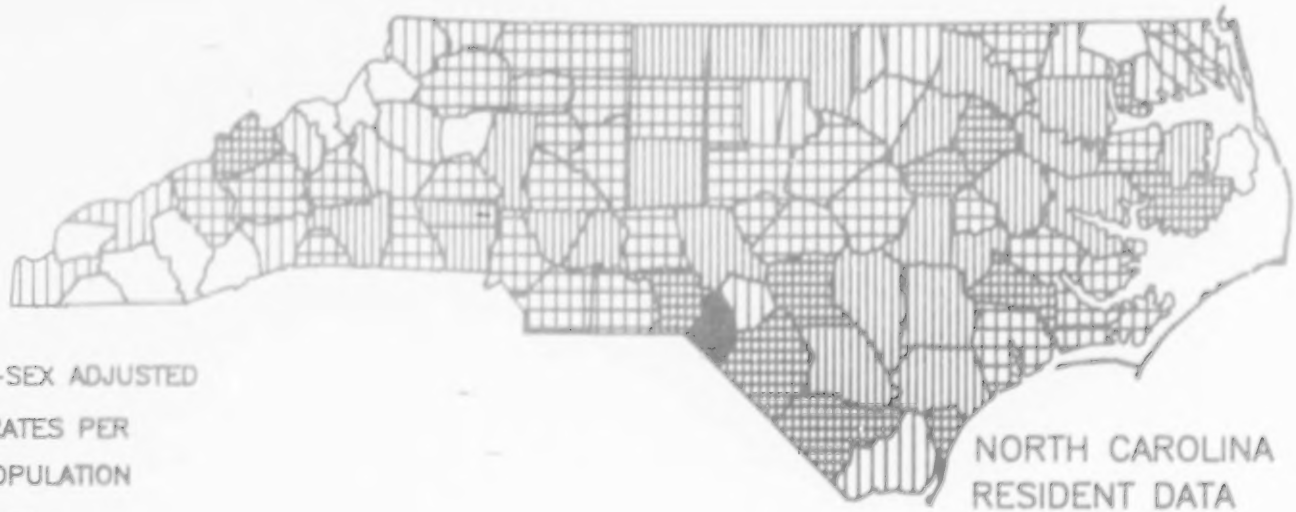
DEATHS PER
100,000 POPULATION



128.61 to 139.92
113.44 to 121.17
87.00 to 106.34
66.32 to 85.47
42.70 to 64.49
28.77

FIGURE 7.A

CEREBROVASCULAR DISEASE



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

107.22
91.59 to 98.33
77.50 to 89.98
63.68 to 76.33
54.83 to 62.21
38.83 to 52.51

FIGURE 7.B

TABLE 8

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

ATHEROSCLEROSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	509	7.93	2704	8.65	8.65
REGIONS					
DHR I WESTERN	156	7.11	999	8.39	7.61
DHR II N. CENTRAL	101	7.47	569	8.61	8.00
DHR III S. CENTRAL	136	9.00	654	8.94	10.47
DHR IV EASTERN	116	8.54	583	8.78	9.36
HSA I WESTERN	86	7.92	490	9.17	7.62
HSA II PIEDMONT	88	7.38	526	9.02	8.48
HSA III S. PIEDMONT	70	6.32	408	7.62	7.81
HSA IV CAPITAL	92	9.71	394	8.71	9.33
HSA V CARDINAL	74	7.63	406	8.57	10.01
HSA VI EASTERN	99	8.89	480	8.78	9.39
COUNTIES					
1 ALAMANCE	13	12.38	80	15.59	13.59
2 ALEXANDER	0	0.00	9	6.76	9.12
3 ALLEGHANY	0	0.00	3	6.14	3.63
4 ANSON	2	7.63	11	8.39	4.99
5 ASHE	0	0.00	12	10.31	5.69
6 AVERY	0	0.00	3	4.00	3.53
7 BEAUFORT	5	11.69	13	6.06	5.55
8 BERTIE	2	9.46	8	7.51	7.11
9 BLADEN	9	29.23	14	9.11	9.33
10 BRUNSWICK	1	2.01	13	5.71	6.36
11 BUNCOMBE	16	9.33	115	13.69	10.51
12 BURKE	4	5.24	15	3.98	4.12
13 CABARRUS	2	2.13	18	3.90	3.93
14 CALDWELL	5	7.08	18	5.18	4.84
15 CAMDEN	0	0.00	7	23.84	22.92
16 CARTERET	0	0.00	9	3.71	2.84
17 CASWELL	0	0.00	6	5.41	4.49
18 CATAWBA	4	3.45	30	5.33	5.42
19 CHATHAM	6	16.51	14	7.90	6.56
20 CHEROKEE	0	0.00	2	1.97	1.10
21 CHOWAN	3	22.16	10	15.20	10.18
22 CLAY	1	13.89	3	8.46	3.51
23 CLEVELAND	4	4.63	36	8.43	7.70
24 COLUMBUS	3	5.67	18	6.90	6.55
25 CRAVEN	3	3.73	27	6.89	9.35
26 CUMBERLAND	16	6.20	56	4.39	10.01
27 CURRITUCK	0	0.00	9	13.75	13.97
28 DARE	6	30.01	20	22.82	20.63
29 DAVIDSON	8	6.48	61	10.27	10.86
30 DAVIE	1	3.64	8	5.82	7.10
31 DUPLIN	6	14.40	29	13.95	12.18
32 DURHAM	36	21.27	161	19.76	18.09
33 EDGECOMBE	4	6.76	26	8.91	8.99
34 FORSYTH	14	5.28	74	5.73	5.40
35 FRANKLIN	2	5.68	5	3.02	2.39
36 GASTON	10	5.79	53	6.22	6.53
37 GATES	0	0.00	5	12.80	8.48
38 GRAHAM	1	14.03	2	5.60	3.56
39 GRANVILLE	6	15.69	15	8.12	7.17
40 GREENE	0	0.00	5	6.05	6.52
41 GUILFORD	35	10.49	170	10.38	9.74

* SEE SECTION I

MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
ATHEROSCLEROSIS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	11	19.43	39	13.92	10.12
43 HARNETT	2	3.07	16	5.06	5.67
44 HAYWOOD	6	12.49	19	7.96	8.04
45 HENDERSON	7	10.29	31	9.40	6.97
46 HERTFORD	3	12.57	8	6.70	6.16
47 HOKE	1	4.17	9	7.89	8.99
48 HYDE	1	17.25	2	6.76	5.27
49 IREDELL	5	5.56	47	10.75	10.03
50 JACKSON	2	7.45	15	11.15	8.84
51 JOHNSTON	6	7.57	25	6.53	6.53
52 JONES	1	9.91	7	14.19	11.13
53 LEE	4	9.66	25	12.43	12.60
54 LENOIR	10	16.57	43	14.22	13.14
55 LINCOLN	1	2.10	21	9.23	9.64
56 MCDOWELL	3	8.25	20	11.03	8.31
57 MACON	3	12.95	11	9.61	4.37
58 MADISON	2	11.50	7	8.13	4.51
59 MARTIN	5	18.64	10	7.50	7.14
60 MECKLENBURG	23	4.93	137	6.17	7.17
61 MITCHELL	0	0.00	8	11.07	5.60
62 MONTGOMERY	0	0.00	7	5.88	4.77
63 MOORE	10	17.38	61	22.15	16.38
64 NASH	6	8.29	18	5.08	5.55
65 NEW HANOVER	13	11.17	63	11.21	12.01
66 NORTHAMPTON	5	26.96	24	21.44	17.52
67 ONSLOW	4	3.18	28	4.57	12.76
68 ORANGE	12	13.91	40	9.65	12.42
69 PAMLICO	0	0.00	2	3.68	2.62
70 PASQUOTANK	1	3.28	11	7.46	5.78
71 PENDER	0	0.00	9	7.31	8.22
72 PERQUIMANS	5	46.62	15	31.25	20.60
73 PERSON	3	9.68	12	7.89	7.58
74 PITT	2	2.00	22	4.55	5.83
75 POLK	4	27.55	12	16.71	8.99
76 RANDOLPH	4	3.98	29	5.94	6.34
77 RICHMOND	2	4.35	28	12.22	10.75
78 ROBESON	14	13.05	65	12.27	15.21
79 ROCKINGHAM	4	4.65	31	7.26	6.92
80 ROWAN	17	16.23	89	17.26	12.65
81 RUTHERFORD	8	14.00	49	17.31	12.98
82 SAMPSON	1	1.97	17	6.75	5.97
83 SCOTLAND	0	0.00	19	11.25	15.47
84 STANLY	8	15.83	29	11.61	11.07
85 STOKES	0	0.00	15	8.49	7.74
86 SURRY	8	12.88	44	14.43	11.25
87 SWAIN	2	18.75	8	14.91	9.70
88 TRANSYLVANIA	7	26.98	22	17.31	16.48
89 TYRRELL	0	0.00	0	0.00	0.00
90 UNION	4	4.88	14	3.57	4.23
91 VANCE	2	5.11	4	2.08	1.60
92 WAKE	15	4.00	86	4.89	6.94
93 WARREN	0	0.00	7	8.53	4.44
94 WASHINGTON	2	13.64	7	9.63	11.72
95 WATAUGA	3	8.67	12	7.01	16.88
96 WAYNE	9	9.16	44	8.96	11.43
97 WILKES	4	6.53	19	6.26	5.29
98 WILSON	4	6.12	30	9.29	9.69
99 YADKIN	1	3.33	8	5.42	3.63
100 YANCEY	0	0.00	9	11.54	6.54

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

TABLE 9

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	12124	189.09	55879	178.85	178.85
REGIONS					
DHR I WESTERN	4229	192.89	19618	183.44	175.54
DHR II N. CENTRAL	2640	195.36	12300	186.29	177.09
DHR III S. CENTRAL	2531	167.54	11511	157.50	180.39
DHR IV EASTERN	2724	200.66	12450	187.55	189.35
HSA I WESTERN	2207	203.36	10197	190.85	171.95
HSA II PIEDMONT	2328	195.42	10745	184.39	178.42
HSA III S. PIEDMONT	2022	182.63	9421	176.05	179.60
HSA IV CAPITAL	1585	167.35	7462	165.01	178.76
HSA V CARDINAL	1823	188.17	8017	169.32	185.52
HSA VI EASTERN	2159	194.09	10037	183.65	186.64
COUNTIES					
1 ALAMANCE	217	206.79	1028	200.41	171.54
2 ALEXANDER	30	110.70	167	125.47	149.48
3 ALLEGHANY	15	154.16	103	210.89	176.88
4 ANSON	54	206.02	252	192.42	166.97
5 ASHE	46	196.99	231	198.55	191.42
6 AVERY	29	191.36	125	166.80	179.08
7 BEAUFORT	89	208.16	467	217.95	188.78
8 BERTIE	57	269.73	250	234.93	183.43
9 BLADEN	59	191.66	280	182.23	169.54
10 BRUNSWICK	128	257.90	474	208.29	196.73
11 BUNCOMBE	401	233.83	1844	219.55	185.82
12 BURKE	124	162.67	570	151.37	151.44
13 CABARRUS	203	216.61	918	199.39	183.85
14 CALDWELL	123	174.29	592	170.43	183.90
15 CAMDEN	11	183.82	66	224.83	204.14
16 CARTERET	117	231.75	517	213.36	204.26
17 CASWELL	46	204.87	189	170.44	158.12
18 CATAWBA	210	181.33	944	167.72	177.16
19 CHATHAM	80	220.20	325	183.43	160.88
20 CHEROKEE	43	205.85	203	200.77	168.80
21 CHOWAN	37	273.36	182	276.78	207.17
22 CLAY	20	277.97	84	237.14	169.36
23 CLEVELAND	176	203.96	797	186.77	178.29
24 COLUMBUS	101	191.09	470	180.37	168.69
25 CRAVEN	123	153.22	578	147.66	179.53
26 CUMBERLAND	315	122.18	1390	109.10	191.91
27 CURRITUCK	33	241.06	140	214.02	204.74
28 DARE	45	225.09	172	196.25	172.65
29 DAVIDSON	216	175.06	994	167.44	169.66
30 DAVIE	54	197.04	250	181.87	191.31
31 DUPLIN	90	216.11	449	216.11	188.80
32 DURHAM	312	184.36	1496	183.67	188.92
33 EDGECOMBE	119	201.26	552	189.25	184.37
34 FORSYTH	528	199.40	2384	184.60	179.58
35 FRANKLIN	56	159.06	307	185.90	155.01
36 GASTON	335	194.01	1485	174.41	177.17
37 GATES	31	320.04	127	271.03	207.48
38 GRAHAM	22	308.81	80	224.01	169.36
39 GRANVILLE	67	175.31	338	182.98	152.08
40 GREENE	24	145.74	125	151.49	158.09
41 GUILFORD	665	199.29	3127	190.94	189.36

* SEE SECTION I

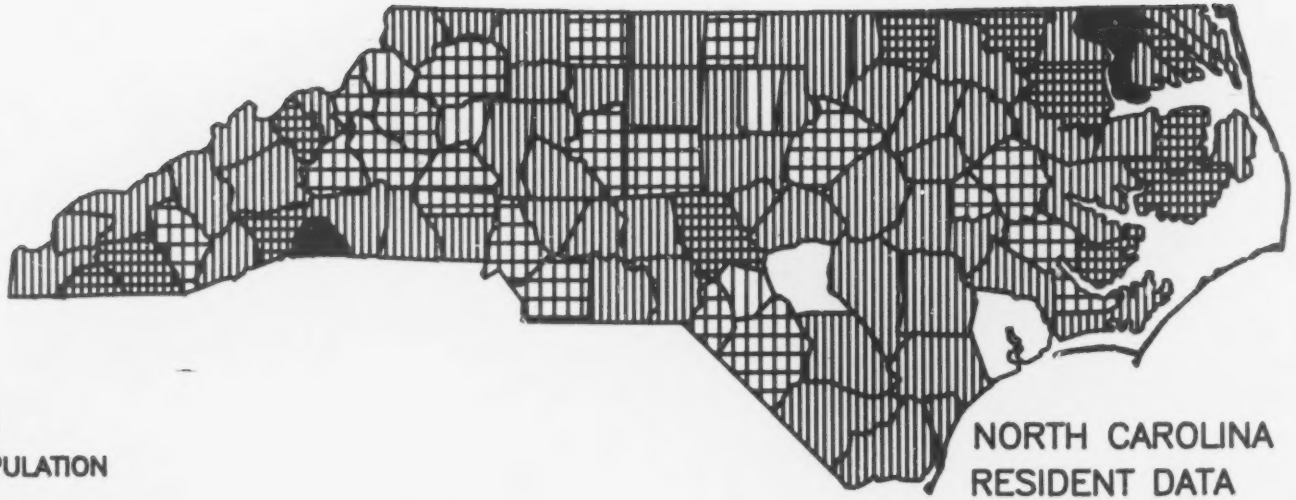
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	131	231.50	560	200.01	164.24
43 HARNETT	136	209.33	571	180.86	192.43
44 HAYWOOD	101	210.32	513	214.92	169.60
45 HENDERSON	173	254.53	770	233.62	169.98
46 HERTFORD	43	180.20	262	219.46	179.50
47 HOKE	32	133.58	145	127.19	161.24
48 HYDE	19	327.81	74	250.45	210.97
49 IREDELL	145	161.32	784	179.34	165.39
50 JACKSON	44	183.95	216	160.66	148.42
51 JOHNSTON	166	209.50	715	186.98	178.93
52 JONES	22	218.03	94	190.67	151.91
53 LEE	84	202.92	367	182.52	185.13
54 LENOIR	128	212.12	614	203.10	187.71
55 LINCOLN	81	170.75	371	163.21	164.14
56 MCDOWELL	69	189.82	308	170.01	156.19
57 MACON	70	302.33	279	243.90	195.81
58 MADISON	36	207.14	156	181.30	194.28
59 MARTIN	56	208.83	260	195.15	173.27
60 MECKLENBURG	789	158.97	3592	166.42	188.00
61 MITCHELL	36	246.96	161	222.95	137.41
62 MONTGOMERY	45	185.58	234	196.86	177.34
63 MOORE	170	295.48	584	248.44	187.49
64 NASH	134	185.22	643	183.04	178.35
65 NEW HANOVER	278	238.96	1201	213.70	220.29
66 NORTHAMPTON	59	265.20	265	237.71	199.14
67 ONSLOW	135	107.44	559	91.36	191.23
68 ORANGE	106	122.91	540	130.37	171.07
69 PAMLICO	29	267.77	139	255.84	207.24
70 PASQUOTANK	69	226.48	339	230.11	213.58
71 PENDER	58	220.72	268	217.90	188.54
72 PERQUIMANS	24	223.77	104	203.14	149.19
73 PERSON	65	209.76	283	186.26	168.93
74 PITT	158	158.63	774	160.36	186.37
75 POLK	44	303.07	200	278.56	168.17
76 RANDOLPH	200	199.02	838	171.86	181.10
77 RICHMOND	105	228.58	451	196.90	174.69
78 ROBESON	177	165.09	822	155.26	174.63
79 ROCKINGHAM	157	182.78	818	191.66	176.30
80 ROWAN	222	211.94	1078	209.06	173.01
81 RUTHERFORD	133	232.80	568	200.76	170.64
82 SAMPSON	106	209.24	491	195.05	171.04
83 SCOTLAND	59	171.72	284	168.21	192.03
84 STANLY	113	223.73	493	197.43	177.11
85 STOKES	59	163.02	275	155.69	167.16
86 SURRY	124	199.75	558	183.02	172.58
87 SWAIN	20	187.58	116	216.20	178.66
88 TRANSYLVANIA	58	223.55	270	212.45	195.51
89 TYRRELL	8	193.05	49	237.80	204.68
90 UNION	135	164.95	600	153.40	178.20
91 VANCE	75	191.68	411	214.69	188.88
92 WAKE	525	140.15	2464	140.19	182.80
93 WARREN	49	295.89	216	263.46	196.99
94 WASHINGTON	27	184.19	153	210.56	204.86
95 WATAUGA	45	130.08	214	125.15	139.34
96 WAYNE	211	214.97	872	177.72	195.85
97 WILKES	108	176.39	506	166.93	162.51
98 WILSON	130	199.06	645	199.76	197.05
99 YADKIN	62	206.99	284	192.64	166.78
100 YANCEY	31	194.55	180	230.82	215.54

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

TOTAL CANCER



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 271.03 to 278.56
- 230.12 to 263.47
- 174.42 to 224.83
- 140.20 to 171.86
- 125.16 to 130.38
- 91.37 to 109.11

FIGURE 9.A

TOTAL CANCER

NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 210.97 to 220.30
- 195.51 to 207.48
- 176.30 to 192.43
- 160.89 to 174.70
- 148.43 to 158.12
- 137.41 to 139.34

FIGURE 9.B

TABLE 10

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF STOMACH

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
NORTH CAROLINA	330	5.14	1513	4.84	4.84
REGIONS					
DHR I WESTERN	122	5.56	532	4.97	5.12
DHR II N. CENTRAL	64	4.73	301	4.55	4.37
DHR III S. CENTRAL	65	4.30	306	4.18	4.50
DHR IV EASTERN	79	5.81	374	5.63	5.04
MSA I WESTERN	60	5.52	272	5.09	5.34
MSA II PIEDMONT	57	4.78	259	4.44	4.46
MSA III S. PIEDMONT	62	5.63	260	4.85	5.12
MSA IV CAPITAL	38	4.01	201	4.44	4.53
MSA V CARDINAL	50	5.16	209	4.41	4.44
MSA VI EASTERN	63	5.66	312	5.70	5.10
COUNTIES					
1 ALAMANCE	5	4.76	27	5.26	4.63
2 ALEXANDER	0	0.00	4	3.00	4.37
3 ALLEGHANY	0	0.00	2	4.09	13.75
4 ANSON	3	11.44	6	4.58	3.03
5 ASHE	0	0.00	7	6.01	3.91
6 AVERY	0	0.00	3	4.00	2.99
7 BEAUFORT	7	16.37	27	12.60	9.49
8 BERTIE	0	0.00	7	6.57	4.94
9 BLADEN	2	6.49	7	4.55	3.86
10 BRUNSWICK	6	12.08	10	4.39	4.15
11 BUNCOMBE	11	6.41	55	6.54	6.34
12 BURKE	4	5.24	18	4.78	5.55
13 CABARRUS	5	5.33	23	4.99	4.83
14 CALDWELL	4	5.66	20	5.75	6.52
15 CAMDEN	0	0.00	2	6.81	4.67
16 CARTERET	2	3.96	9	3.71	4.38
17 CASWELL	2	8.90	6	5.41	4.05
18 CATAWBA	5	4.31	23	4.08	5.46
19 CHATHAM	2	5.50	5	2.82	2.12
20 CHEROKEE	0	0.00	2	1.97	1.24
21 CHOWAN	2	14.77	8	12.16	8.37
22 CLAY	1	13.89	2	5.64	4.28
23 CLEVELAND	4	4.63	17	3.98	4.15
24 COLUMBUS	1	1.89	13	4.98	4.05
25 CRAVEN	5	7.47	25	6.38	6.77
26 CUMBERLAND	5	1.93	42	3.29	5.71
27 CURRITUCK	1	7.30	3	4.58	5.73
28 DARE	2	10.00	3	3.42	2.06
29 DAVIDSON	5	4.05	23	3.87	4.95
30 DAVIE	0	0.00	5	3.63	3.95
31 DUPLIN	3	7.20	12	5.77	4.36
32 DURHAM	4	2.36	41	5.03	4.55
33 EDGECOMBE	3	5.07	19	6.17	3.80
34 FORSYTH	16	5.28	66	5.11	4.88
35 FRANKLIN	2	5.69	6	3.63	3.17
36 GASTON	16	9.26	48	5.63	6.01
37 GATES	1	10.32	1	2.13	0.91
38 GRAHAM	0	0.00	0	0.00	0.00
39 GRANVILLE	2	5.23	15	8.12	6.37
40 GREENE	3	18.21	7	8.48	8.98
41 GUILFORD	15	4.49	69	4.21	4.21

* SEE SECTION I

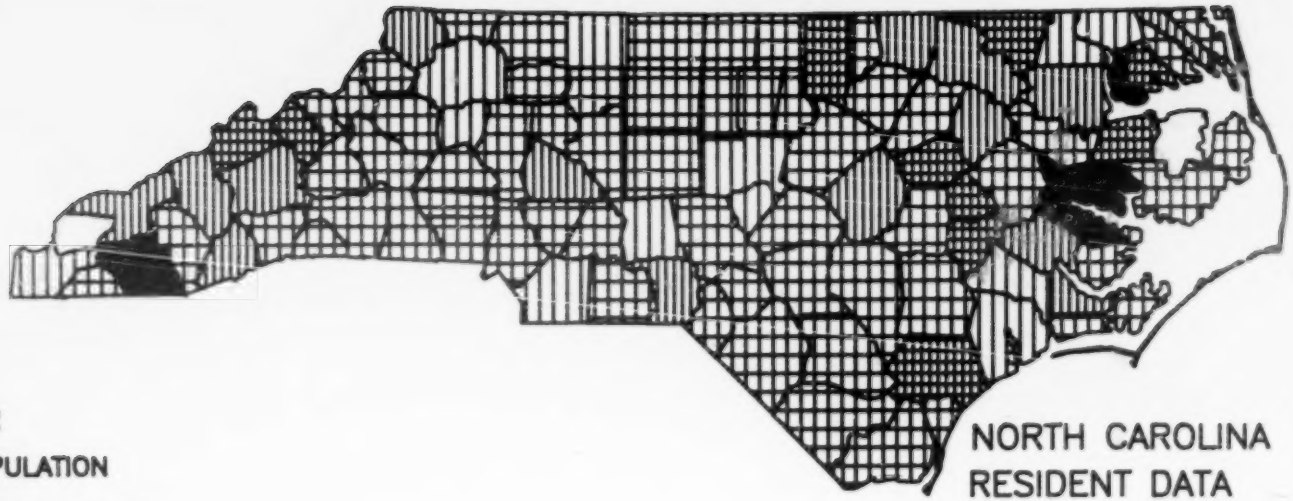
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF STOMACH CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	5	8.83	18	6.42	4.38
43 HARNETT	5	7.69	15	4.75	5.26
44 HAYWOOD	4	8.32	15	6.28	3.89
45 HENDERSON	6	8.82	17	5.15	4.48
46 HERTFORD	1	4.19	3	2.51	0.79
47 HOKE	3	12.52	4	3.50	4.26
48 HYDE	0	0.00	1	3.39	3.02
49 IREDELL	3	3.33	17	3.88	3.60
50 JACKSON	2	7.45	5	3.71	3.13
51 JOHNSTON	5	6.31	24	6.27	6.10
52 JONES	1	9.91	1	2.02	2.09
53 LEE	1	2.41	5	2.48	2.82
54 LENOIR	3	4.97	27	8.93	6.03
55 LINCOLN	1	2.10	10	4.39	3.92
56 MCDOWELL	3	8.25	10	5.51	8.00
57 MACON	2	8.63	14	12.23	19.67
58 MADISON	2	11.50	7	8.13	4.82
59 MARTIN	1	3.72	6	4.50	3.57
60 MECKLENBURG	28	6.00	107	4.82	5.45
61 MITCHELL	1	6.86	3	4.15	2.30
62 MONTGOMERY	1	4.12	3	2.52	2.22
63 MOORE	4	6.95	14	5.08	4.16
64 NASH	4	5.52	17	4.80	4.65
65 NEW HANOVER	6	5.15	26	4.62	4.68
66 NORTHAMPTON	4	17.97	11	9.83	9.00
67 ONSLOW	1	0.79	11	1.79	3.73
68 ORANGE	2	2.31	15	3.62	4.51
69 PAMLICO	0	0.00	2	3.68	2.80
70 PASQUOTANK	1	3.28	7	4.75	3.71
71 PENDER	3	11.41	13	10.57	6.64
72 PERQUIMANS	0	0.00	4	7.81	5.45
73 PERSON	1	3.22	7	4.60	3.93
74 PITT	6	6.02	26	5.38	5.10
75 POLK	1	6.95	4	5.57	2.23
76 RANDOLPH	2	1.99	16	3.28	3.74
77 RICHMOND	4	8.70	14	6.11	4.71
78 ROBESON	2	1.86	20	3.77	3.74
79 ROCKINGHAM	8	9.31	25	5.85	5.35
80 ROWAN	7	6.68	37	7.17	5.92
81 RUTHERFORD	3	5.25	11	3.88	3.47
82 SAMPSON	4	7.89	14	5.56	4.22
83 SCOTLAND	1	2.91	8	4.73	5.45
84 STANLY	1	1.97	10	4.00	2.98
85 STOKES	2	5.52	5	2.83	3.96
86 SURRY	3	4.83	12	3.93	4.81
87 SWAIN	0	0.00	4	7.45	6.66
88 TRANSYLVANIA	3	11.56	8	6.29	9.49
89 TYRRELL	0	0.00	0	0.00	0.00
90 UNION	1	1.22	8	2.04	2.37
91 VANCE	1	2.55	8	4.17	3.26
92 WAKE	17	4.53	69	3.92	4.93
93 WARREN	1	6.03	6	7.31	4.06
94 WASHINGTON	0	0.00	6	8.25	6.19
95 WATAUGA	2	5.78	8	4.67	4.07
96 WAYNE	2	2.03	22	4.48	4.28
97 WILKES	1	1.63	6	1.97	2.55
98 WILSON	4	6.12	28	8.67	8.28
99 YADKIN	1	3.33	5	3.39	2.60
100 YANCEY	1	6.27	7	8.97	6.10

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF THE STOMACH



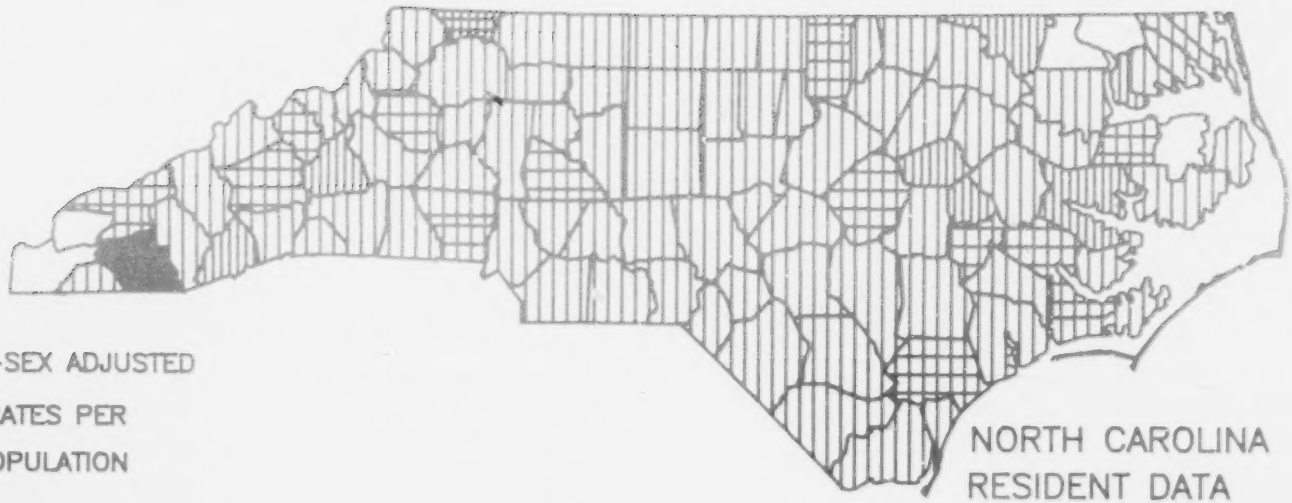
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 12.17 to 12.60
- 7.82 to 10.57
- 6.02 to 7.46
- 3.28 to 5.86
- 1.80 to 3.00
- 0.00

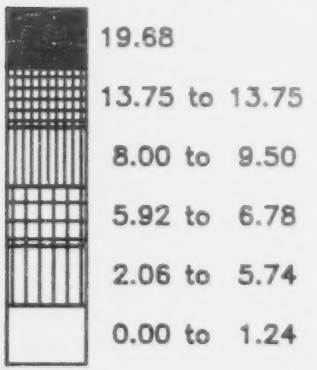
FIGURE 10.A

CANCER OF THE STOMACH



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION



19.68
13.75 to 13.75
8.00 to 9.50
5.92 to 6.78
2.06 to 5.74
0.00 to 1.24

FIGURE 10.B

TABLE 11

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF COLON, RECTUM AND ANUS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	1283	20.00	5966	19.09	19.09
REGIONS					
DHR I WESTERN	480	21.89	2176	20.34	19.35
DHR II N. CENTRAL	257	19.01	1299	19.67	18.64
DHR III S. CENTRAL	263	17.40	1172	16.73	18.38
DHR IV EASTERN	283	20.84	1319	19.86	20.33
HSA I WESTERN	250	23.03	1105	20.68	18.65
HSA II PIEDMONT	230	19.30	1143	19.61	18.90
HSA III S. PIEDMONT	230	20.77	1071	20.71	20.44
HSA IV CAPITAL	162	17.10	783	17.31	18.60
HSA V CARDINAL	196	20.23	821	17.34	19.08
HSA VI EASTERN	215	19.32	1043	19.08	19.67
COUNTIES					
1 ALAMANCE	24	22.87	116	22.61	19.35
2 ALEXANDER	4	14.76	29	21.78	27.47
3 ALLEGHANY	3	30.83	9	18.42	11.42
4 ANSON	6	22.89	20	15.27	12.49
5 ASHE	2	8.56	17	14.61	16.38
6 AVERY	7	46.19	14	18.68	48.11
7 BEAUFORT	10	23.38	40	18.66	16.29
8 BERTIE	4	18.92	27	25.37	17.88
9 BLADEN	3	9.74	23	14.96	14.35
10 BRUNSWICK	12	24.17	47	20.65	20.60
11 BUNCOMBE	51	29.73	197	23.45	19.68
12 BURKE	14	18.36	59	15.66	14.83
13 CABARRUS	20	21.34	100	21.72	19.36
14 CALDWELL	11	15.58	53	15.25	15.74
15 CAMDEN	2	33.42	9	30.65	26.39
16 CARTERET	16	31.69	67	27.65	26.67
17 CASWELL	5	22.26	17	15.33	16.73
18 CATAWBA	26	22.45	105	18.65	20.89
19 CHATHAM	13	35.78	39	22.01	18.90
20 CHEROKEE	5	23.93	19	18.79	13.81
21 CHOWAN	3	22.16	17	25.85	17.41
22 CLAY	4	55.59	12	33.87	19.88
23 CLEVELAND	20	23.17	98	22.96	21.59
24 COLUMBUS	11	20.81	38	14.58	13.38
25 CRAVEN	9	11.21	57	14.56	17.82
26 CUMBERLAND	41	15.90	129	10.12	18.10
27 CURRITUCK	2	14.61	15	22.93	21.16
28 DARE	6	30.01	26	29.66	24.93
29 DAVIDSON	17	13.77	92	15.49	15.15
30 DAVIE	4	14.59	25	18.18	19.65
31 DUPLIN	8	19.21	34	16.36	14.06
32 DURHAM	31	18.31	162	19.88	20.02
33 EDGECOMBE	15	25.36	56	19.19	18.33
34 FORSYTH	54	20.39	258	19.97	19.17
35 FRANKLIN	5	14.20	26	15.74	11.76
36 GASTON	34	19.69	153	17.97	17.65
37 GATES	5	51.62	12	25.60	22.32
38 GRAHAM	0	0.00	7	19.60	12.90
39 GRANVILLE	8	20.93	41	22.19	17.57
40 GREENE	3	18.21	13	15.75	15.87
41 GUILFORD	69	20.67	336	20.51	20.27

* SEE SECTION I

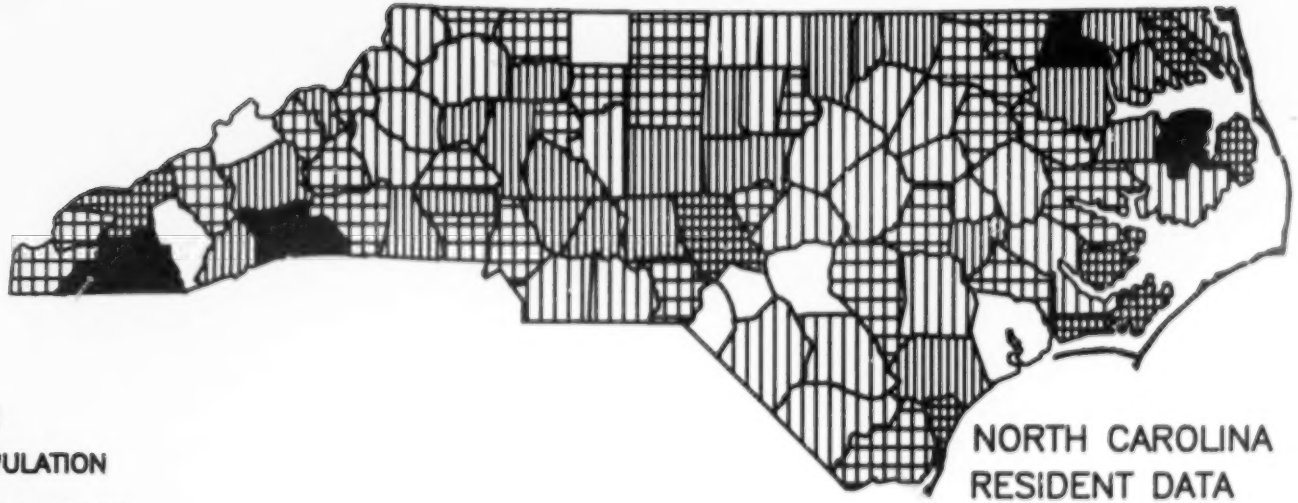
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF COLON, RECTUM AND ANUS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	9	15.90	56	20.00	17.97
43 HARNETT	7	10.77	53	16.78	18.02
44 HAYWOOD	6	12.49	47	19.69	15.53
45 HENDERSON	25	36.78	111	33.67	22.00
46 HERTFORD	7	29.33	39	32.66	27.26
47 HOKE	3	12.52	10	8.77	10.32
48 HYDE	1	17.25	5	16.92	17.71
49 IREDELL	20	22.25	97	22.18	20.53
50 JACKSON	2	7.45	16	11.90	10.30
51 JOHNSTON	10	12.62	55	14.38	14.24
52 JONES	1	9.91	9	18.25	14.14
53 LEE	7	16.91	38	18.89	18.74
54 LENOIR	14	23.20	66	21.83	21.55
55 LINCOLN	12	25.29	49	21.55	24.29
56 MCDOWELL	7	19.25	33	18.21	19.11
57 MACON	11	47.51	41	35.84	29.12
58 MADISON	1	5.75	9	10.46	6.65
59 MARTIN	9	33.56	25	18.76	16.21
60 MECKLENBURG	91	19.51	417	18.79	21.51
61 MITCHELL	3	20.58	16	22.15	13.39
62 MONTGOMERY	9	37.11	30	25.23	23.35
63 MOORE	14	24.33	76	27.60	20.27
64 NASH	6	8.29	62	17.51	17.10
65 NEW HANOVER	36	30.94	164	29.18	30.23
66 NORTHAMPTON	8	35.95	23	20.55	18.19
67 ONSLOW	12	9.55	54	8.82	20.12
68 ORANGE	13	15.07	59	14.24	18.75
69 PAMLICO	5	46.16	17	31.29	25.01
70 PASQUOTANK	4	13.12	42	28.50	25.36
71 PENDER	9	34.25	27	21.95	20.51
72 PERQUIMANS	4	37.29	13	25.39	17.48
73 PERSON	7	22.59	25	16.45	14.51
74 PITT	13	13.05	80	16.57	18.85
75 POLK	6	41.32	25	34.82	17.23
76 RANDOLPH	28	27.86	110	22.55	24.07
77 RICHMOND	12	26.12	47	20.52	18.07
78 ROBESON	21	19.58	88	16.62	17.93
79 ROCKINGHAM	10	11.64	79	18.51	17.18
80 ROWAN	22	21.00	124	24.04	20.42
81 RUTHERFORD	15	26.25	53	18.73	16.13
82 SAMPSON	8	15.79	49	19.46	17.49
83 SCOTLAND	4	11.64	20	11.84	13.45
84 STANLY	15	29.69	63	25.23	22.35
85 STOKES	2	5.52	20	11.32	11.62
86 SURRY	11	17.72	58	19.02	18.48
87 SWAIN	5	46.89	17	31.68	27.98
88 TRANSYLVANIA	3	11.56	28	22.03	14.86
89 TYRRELL	2	48.26	7	33.97	26.24
90 UNION	16	19.54	68	17.38	20.23
91 VANCE	6	15.33	45	23.50	20.68
92 WAKE	61	16.28	274	15.56	20.74
93 WARREN	1	6.03	19	23.17	14.09
94 WASHINGTON	4	27.28	19	26.14	24.20
95 WATAUGA	3	8.67	23	13.45	12.30
96 WAYNE	23	23.43	103	20.99	23.41
97 WILKES	15	24.49	53	17.48	15.62
98 WILSON	10	15.31	50	15.48	15.91
99 YADKIN	6	20.03	32	21.70	19.96
100 YANCEY	1	6.27	14	17.95	11.54

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF THE COLON, RECTUM, AND ANUS



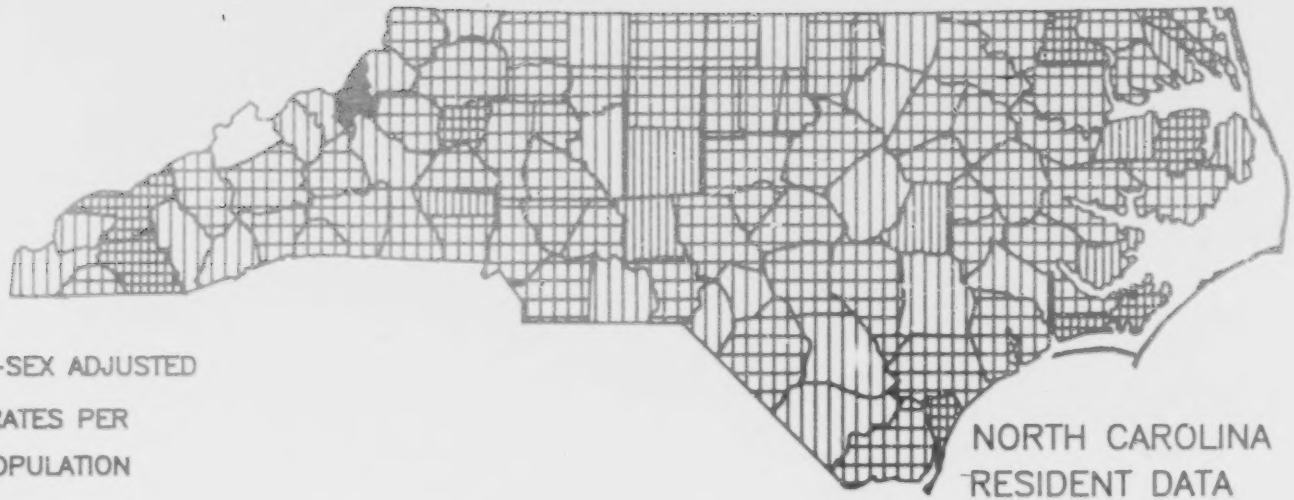
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 32.67 to 35.84
- 27.60 to 31.69
- 21.56 to 26.15
- 17.96 to 21.00
- 13.45 to 17.51
- 8.77 to 11.90

FIGURE 11.A

CANCER OF THE COLON, RECTUM AND ANUS



AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 48.12
- 26.24 to 30.23
- 23.36 to 25.37
- 15.54 to 22.35
- 10.30 to 15.16
- 6.65

FIGURE 11.B

TABLE 12

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF PANCREAS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	613	9.56	2929	9.37	9.37
REGIONS					
DHR I WESTERN	209	9.53	1030	9.63	9.50
DHR II N. CENTRAL	143	10.58	681	10.31	9.82
DHR III S. CENTRAL	121	8.00	591	8.08	9.26
DHR IV EASTERN	140	10.31	627	9.44	9.49
HSA I WESTERN	100	9.21	533	9.97	9.12
HSA II PIEDMONT	124	10.40	598	10.26	10.02
HSA III S. PIEDMONT	109	9.84	497	9.28	9.72
HSA IV CAPITAL	75	7.91	371	8.20	8.88
HSA V CARDINAL	86	8.87	398	8.40	9.13
HSA VI EASTERN	119	10.69	532	9.73	9.86
COUNTIES					
1 ALAMANCE	8	7.62	45	8.77	7.45
2 ALEXANDER	0	0.00	4	3.00	7.70
3 ALLEGHANY	2	20.55	8	16.38	10.06
4 ANSON	0	0.00	7	5.34	4.60
5 ASHE	7	29.97	18	15.47	9.47
6 AVERY	0	0.00	4	5.33	21.29
7 BEAUFORT	1	2.33	18	8.40	6.60
8 BERTIE	10	47.32	26	24.43	17.85
9 BLADEN	3	9.74	16	10.41	8.64
10 BRUNSWICK	6	12.08	16	7.03	6.87
11 BUNCOMBE	10	5.83	79	9.40	7.94
12 BURKE	5	6.55	28	7.43	6.29
13 CABARRUS	15	16.00	47	10.20	9.50
14 CALDWELL	4	5.66	29	8.34	8.59
15 CAMDEN	0	0.00	3	10.21	10.10
16 CARTERET	2	3.96	27	11.14	8.54
17 CASWELL	3	13.36	17	15.33	11.88
18 CATAWBA	11	9.49	51	9.06	9.39
19 CHATHAM	3	8.25	12	6.77	6.22
20 CHEROKEE	0	0.00	7	6.92	7.77
21 CHOWAN	1	7.38	11	16.72	10.31
22 CLAY	0	0.00	7	19.76	9.80
23 CLEVELAND	10	11.58	45	10.54	10.24
24 COLUMBUS	4	7.56	21	8.05	7.52
25 CRAVEN	4	4.98	24	6.13	7.11
26 CUMBERLAND	16	6.20	76	5.96	11.61
27 CURRITUCK	1	7.30	6	9.17	10.13
28 DARE	2	10.00	10	11.41	8.15
29 DAVIDSON	15	12.15	60	10.10	10.95
30 DAVIE	6	21.89	16	11.64	10.54
31 DUPLIN	5	12.00	27	12.99	11.89
32 DURHAM	16	9.45	74	9.08	9.45
33 EDGECOMBE	4	6.76	16	5.48	4.86
34 FORSYTH	22	8.30	126	9.75	9.53
35 FRANKLIN	2	5.68	21	12.71	9.84
36 GASTON	13	7.52	64	7.51	7.91
37 GATES	4	41.29	8	17.07	8.40
38 GRAHAM	0	0.00	2	5.60	3.60
39 GRANVILLE	3	7.84	18	9.74	9.39
40 GREENE	0	0.00	10	12.11	12.34
41 GUILFORD	35	10.48	167	10.19	10.17

* SEE SECTION I

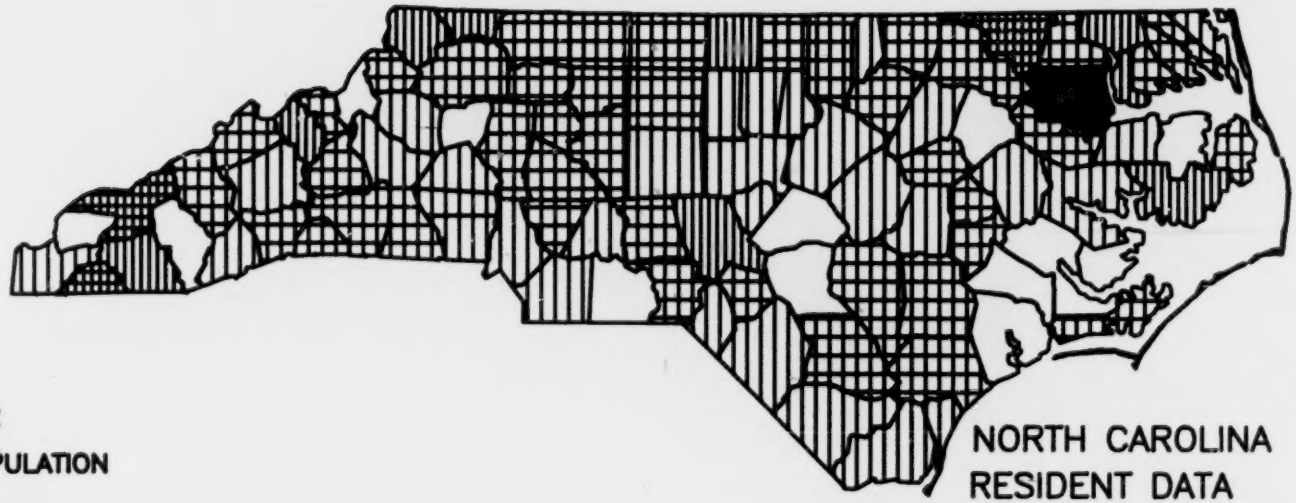
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF PANCREAS CONT'D.

	COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42	HALIFAX	8	14.13	32	11.42	8.49
43	HARNETT	4	6.15	16	5.06	5.44
44	HAYWOOD	5	10.41	30	12.56	7.85
45	HENDERSON	13	19.12	37	11.22	11.23
46	HERTFORD	2	8.38	13	10.88	11.11
47	HOKE	2	8.34	12	10.52	10.37
48	HYDE	3	51.75	5	16.92	13.68
49	IREDELL	6	6.67	48	10.98	10.74
50	JACKSON	2	7.45	8	5.95	4.93
51	JOHNSTON	8	10.09	34	8.89	8.41
52	JONES	2	19.82	2	4.05	3.47
53	LEE	2	4.83	15	7.46	7.74
54	LENOIR	3	4.97	40	13.23	13.25
55	LINCOLN	2	4.21	21	9.23	8.15
56	MCDOWELL	1	2.75	18	9.93	9.94
57	MACON	4	17.27	17	14.86	7.55
58	MADISON	0	0.00	9	10.46	26.26
59	MARTIN	6	22.37	18	13.51	13.69
60	MECKLENBURG	53	11.36	204	9.19	10.34
61	MITCHELL	3	20.58	9	12.46	7.91
62	MONTGOMERY	3	12.37	14	11.77	10.45
63	MOORE	13	22.59	48	17.43	13.28
64	NASH	2	2.76	28	7.90	8.02
65	NEW HANOVER	9	7.73	45	8.00	8.17
66	NORTHAMPTON	6	26.96	21	18.76	14.58
67	ONSLOW	9	7.16	26	4.24	9.76
68	ORANGE	4	4.63	33	7.96	10.14
69	PAMLICO	0	0.00	2	3.68	2.23
70	PASQUOTANK	7	22.97	20	13.57	13.60
71	PENDER	2	7.61	13	10.57	9.02
72	PERQUIMANS	1	9.32	5	9.76	6.29
73	PERSON	3	9.68	17	11.18	10.09
74	PITT	9	9.03	41	8.49	9.73
75	POLK	1	6.88	8	11.14	8.52
76	RANDOLPH	10	9.95	46	9.43	10.54
77	RICHMOND	4	8.70	29	12.66	11.25
78	ROBESON	8	7.46	45	8.49	8.97
79	ROCKINGHAM	6	6.98	48	11.24	10.43
80	ROWAN	8	7.63	59	11.44	9.20
81	RUTHERFORD	4	7.00	31	10.95	9.30
82	SAMPSON	7	13.81	25	9.93	8.69
83	SCOTLAND	5	14.55	15	8.88	7.29
84	STANLY	4	7.91	18	7.20	5.99
85	STOKES	4	11.05	17	9.62	8.67
86	SURRY	9	14.49	36	11.80	10.15
87	SWAIN	1	9.37	11	20.50	14.11
88	TRANSYLVANIA	3	11.56	9	7.08	4.82
89	TYRRELL	0	0.00	1	4.85	7.89
90	UNION	8	9.77	36	9.20	11.33
91	VANCE	5	12.77	16	8.35	5.55
92	WAKE	23	6.14	120	6.82	9.01
93	WARREN	6	36.23	11	13.41	8.54
94	WASHINGTON	0	0.00	6	8.25	7.39
95	WATAUGA	4	11.56	17	9.94	9.17
96	WAYNE	14	14.26	45	9.17	10.29
97	WILKES	7	11.43	35	11.54	10.76
98	WILSON	13	19.90	41	12.69	12.83
99	YADKIN	6	20.03	20	13.56	9.81
100	YANCEY	3	18.82	12	15.38	9.69

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF THE PANCREAS



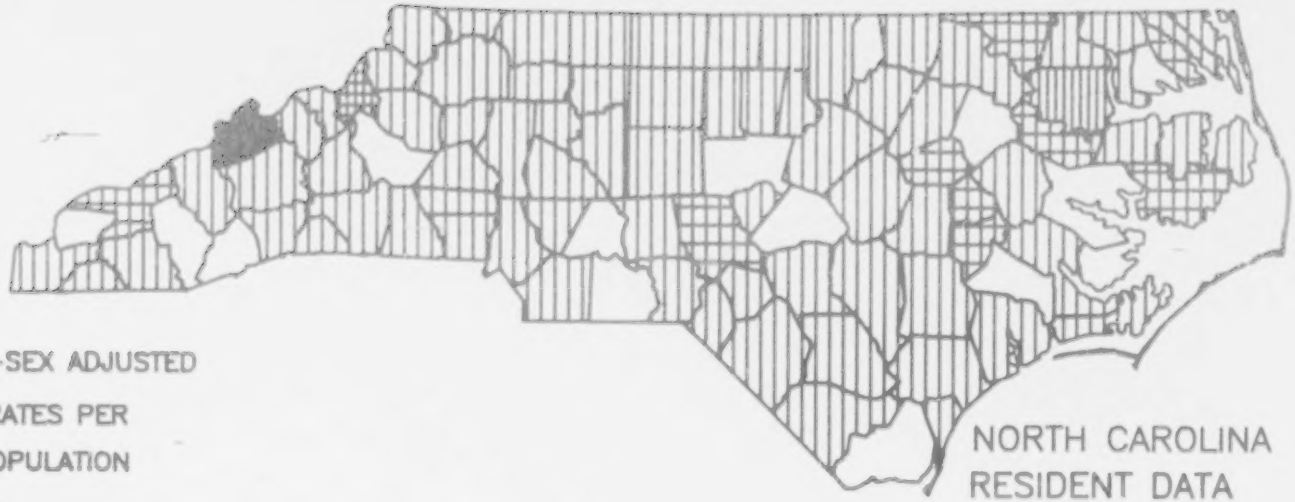
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 24.43
- 18.77 to 20.50
- 14.86 to 17.43
- 9.63 to 13.58
- 6.77 to 9.43
- 3.00 to 6.13

FIGURE 12.A

CANCER OF THE PANCREAS



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

S-59

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 26.27
- 21.29
- 17.85
- 12.35 to 14.58
- 7.11 to 11.90
- 2.23 to 6.88

FIGURE 12.B

TABLE 13

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF TRACHEA, BRONCHUS AND LUNG

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	3423	53.38	15464	49.49	49.49
REGIONS					
DHR I WESTERN	1195	54.50	5384	50.34	47.10
DHR II N. CENTRAL	740	54.76	3327	50.39	47.77
DHR III S. CENTRAL	728	48.19	3208	43.89	51.41
DHR IV EASTERN	760	55.98	3545	53.40	55.59
HSA I WESTERN	602	55.47	2729	51.07	44.50
HSA II PIEDMONT	646	54.22	2889	49.57	47.57
HSA III S. PIEDMONT	593	53.56	2655	49.61	49.93
HSA IV CAPITAL	448	47.30	2069	45.75	51.14
HSA V CARDINAL	533	55.01	2280	48.15	53.80
HSA VI EASTERN	601	54.02	2942	52.00	54.85
COUNTIES					
1 ALAMANCE	60	57.17	279	54.39	45.32
2 ALEXANDER	7	25.83	40	30.05	33.84
3 ALLEGHANY	4	41.10	37	75.75	66.49
4 ANSON	14	53.41	74	56.50	50.23
5 ASHE	12	51.38	67	57.58	50.82
6 AVERY	12	79.18	46	61.38	46.71
7 BEAUFORT	25	58.47	133	62.07	57.63
8 BERTIE	15	75.71	61	57.32	48.03
9 BLADEN	19	61.72	84	54.67	50.32
10 BRUNSWICK	40	80.59	155	68.11	60.90
11 BUNCOMBE	109	63.56	487	57.98	47.90
12 BURKE	34	44.60	169	44.88	42.01
13 CABARRUS	65	69.35	258	56.03	51.39
14 CALDWELL	28	39.67	153	44.04	43.32
15 CAMDEN	5	83.55	16	54.50	49.30
16 CARTERET	36	71.30	161	66.44	58.09
17 CASWELL	12	53.44	46	41.48	38.21
18 CATAWBA	63	54.39	264	46.90	46.75
19 CHATHAM	22	60.55	90	50.79	45.16
20 CHEROKEE	16	76.59	60	59.34	61.86
21 CHOWAN	13	96.04	47	71.47	57.53
22 CLAY	6	83.39	21	59.28	33.72
23 CLEVELAND	49	56.78	204	47.80	45.28
24 COLUMBUS	29	54.86	139	53.34	51.06
25 CRAVEN	28	34.88	142	36.27	44.90
26 CUMBERLAND	102	39.56	448	35.16	63.24
27 CURRITUCK	13	94.96	46	70.32	64.95
28 DARE	15	75.03	50	57.05	52.17
29 DAVIDSON	51	41.33	266	44.80	42.75
30 DAVIE	12	43.78	50	36.37	38.12
31 DUPLIN	24	57.63	119	57.27	50.27
32 DURHAM	84	49.63	412	50.58	56.08
33 EDGECOMBE	25	42.28	148	50.74	55.63
34 FORSYTH	149	56.27	627	48.55	47.90
35 FRANKLIN	20	56.81	105	63.58	56.31
36 GASTON	98	56.75	459	53.91	54.44
37 GATES	8	82.59	40	85.36	69.43
38 GRAHAM	7	98.25	29	81.20	59.79
39 GRANVILLE	19	49.71	88	47.64	43.78
40 GREENE	7	42.50	46	55.75	64.00
41 GUILFORD	187	56.04	872	53.24	53.16

* SEE SECTION I

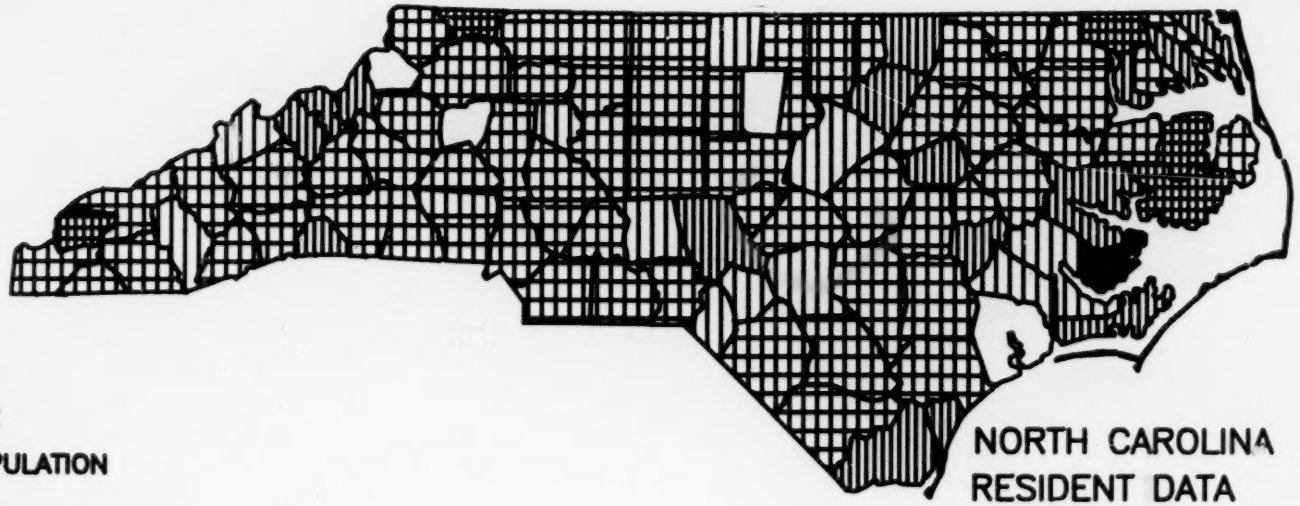
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF TRACHEA, BRONCHUS AND LUNG CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	34	60.08	164	58.57	54.38
43 HARNETT	29	44.63	148	46.87	49.96
44 HAYWOOD	21	43.73	140	58.65	40.12
45 HENDERSON	50	73.56	187	56.73	42.49
46 HERTFORD	14	58.67	68	56.96	50.31
47 HOKE	12	50.09	46	40.35	56.60
48 HYDE	6	103.51	23	77.84	67.08
49 IREDELL	43	47.84	205	47.12	41.79
50 JACKSON	9	33.53	53	39.42	37.38
51 JOHNSTON	57	71.93	217	56.74	53.51
52 JONES	4	39.64	20	40.56	30.84
53 LEE	26	62.80	106	52.71	53.62
54 LENOIR	40	66.28	191	63.18	60.17
55 LINCOLN	25	52.70	91	40.03	40.29
56 MCDOWELL	20	55.02	92	50.78	42.45
57 MACON	14	60.46	65	56.82	43.19
58 MADISON	8	46.03	34	39.51	46.91
59 MARTIN	14	52.20	73	54.79	48.79
60 MECKLENBURG	219	46.96	1059	47.73	54.71
61 MITCHELL	7	48.02	46	63.70	38.88
62 MONTGOMERY	10	41.24	49	41.22	37.41
63 MOORE	55	95.59	184	66.83	50.28
64 NASH	34	46.99	178	50.28	49.83
65 NEW HANOVER	80	68.76	340	60.50	62.54
66 NORTHAMPTON	10	44.94	56	50.04	46.94
67 ONSLOW	36	28.65	164	26.80	54.56
68 ORANGE	21	24.35	132	31.87	42.89
69 PAMLICO	8	73.86	53	97.55	80.59
70 PASQUOTANK	24	78.77	103	69.91	68.06
71 PENDER	10	38.05	69	56.10	49.18
72 PERQUIMANS	4	37.29	30	58.59	46.03
73 PERSON	23	74.22	77	50.68	46.93
74 PITT	47	47.18	215	44.54	54.82
75 POLK	10	68.88	48	66.85	44.37
76 RANDOLPH	52	51.74	226	46.34	44.73
77 RICHMOND	27	58.77	117	51.08	46.92
78 ROBESON	62	57.83	239	45.14	56.21
79 ROCKINGHAM	46	53.55	204	47.79	43.80
80 ROWAN	60	57.28	281	54.49	43.86
81 RUTHERFORD	45	78.76	158	55.84	48.27
82 SAMPSON	32	63.16	122	48.46	43.85
83 SCOTLAND	12	34.92	66	39.09	47.38
84 STANLY	31	61.37	130	52.06	47.39
85 STOKES	26	71.84	87	49.25	55.33
86 SURRY	36	57.99	166	54.44	51.02
87 SWAIN	2	18.75	23	42.86	36.27
88 TRANSYLVANIA	12	46.25	67	52.72	55.83
89 TYRRELL	3	72.39	16	77.65	71.63
90 UNION	52	63.53	171	43.71	50.19
91 VANCE	19	48.55	113	59.02	54.77
92 WAKE	144	38.44	674	38.34	51.01
93 WARREN	13	78.50	55	67.08	62.12
94 WASHINGTON	10	68.22	36	49.54	46.19
95 WATAUGA	13	37.57	50	29.24	37.27
96 WAYNE	66	67.24	247	50.34	56.88
97 WILKES	36	58.79	140	46.18	45.79
98 WILSON	32	49.00	196	60.70	62.72
99 YADKIN	15	50.07	65	44.76	35.28
100 YANCEY	8	50.20	49	62.83	41.21

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF TRACHEA, BRONCHUS, AND LUNG



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 97.55
- 75.76 to 85.36
- 60.50 to 71.48
- 42.87 to 59.34
- 35.17 to 51.48
- 26.80 to 31.87

FIGURE 13.A

CANCER OF TRACHEA, BRONCHUS AND LUNG

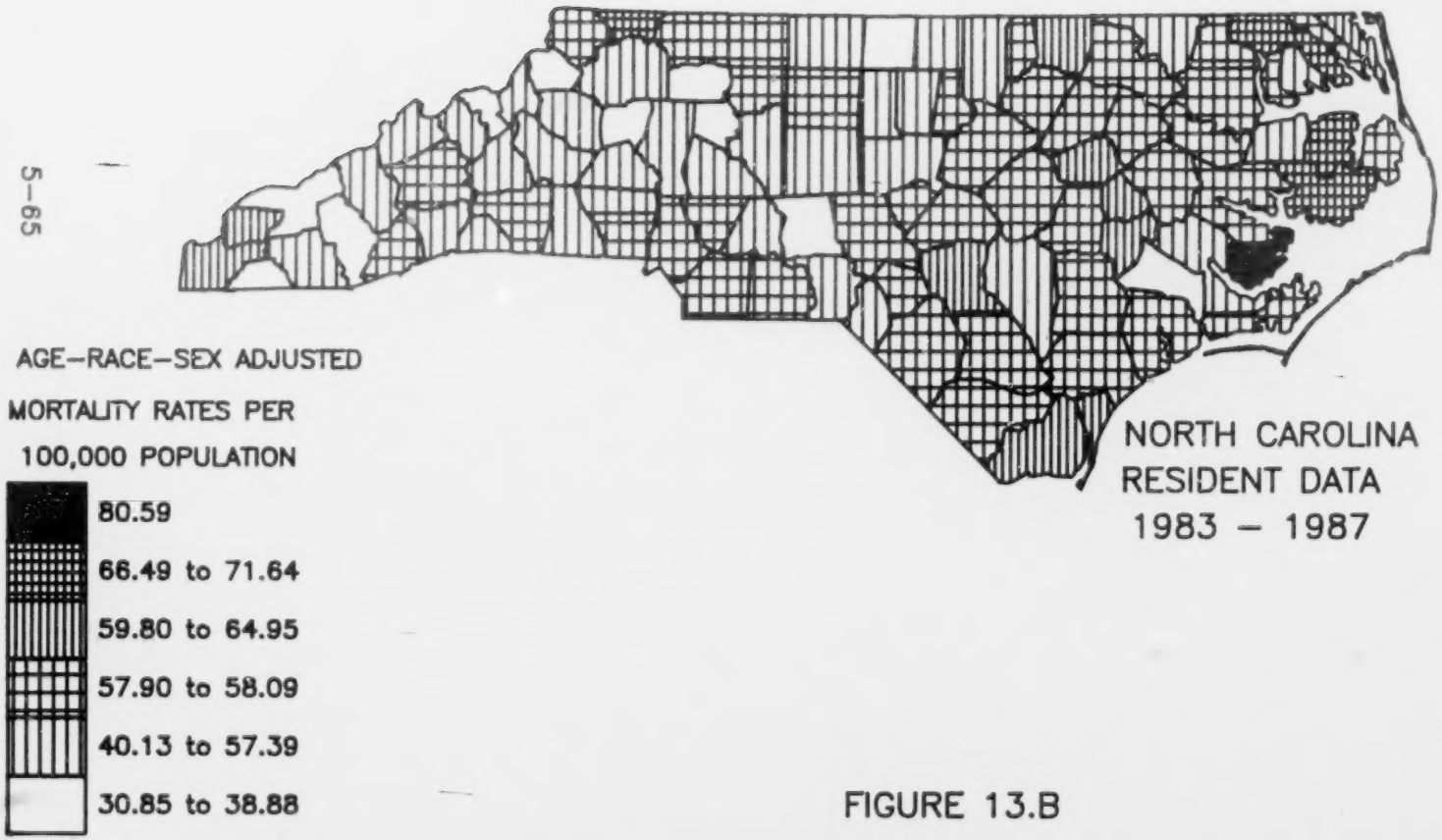


FIGURE 13.B

TABLE 14

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF FEMALE BREAST

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	1017	30.61	4896	30.36	30.36
REGIONS					
DHR I WESTERN	378	33.15	1723	31.06	29.48
DHR II N. CENTRAL	225	31.76	1119	32.19	30.81
DHR III S. CENTRAL	184	23.55	1035	27.64	31.02
DHR IV EASTERN	230	33.05	1028	30.36	30.37
HSA I WESTERN	196	34.82	878	31.75	27.98
HSA II PIEDMONT	202	32.31	989	32.45	31.58
HSA III S. PIEDMONT	182	31.52	845	30.37	30.41
HSA IV CAPITAL	117	23.75	668	28.50	30.60
HSA V CARDINAL	138	27.80	683	28.32	30.78
HSA VI EASTERN	182	32.05	833	30.00	30.01
COUNTIES					
1 ALAMANCE	19	34.16	89	32.87	28.86
2 ALEXANDER	2	14.63	20	29.81	34.22
3 ALLEGHANY	1	19.85	7	27.70	18.26
4 ANSON	2	14.19	27	38.61	35.56
5 ASHE	4	33.21	19	31.73	48.44
6 AVERY	4	52.24	11	29.13	23.69
7 BEAUFORT	8	35.44	40	35.50	30.76
8 BERTIE	3	26.60	23	40.78	37.82
9 BLADEN	4	24.94	18	22.60	22.00
10 BRUNSWICK	9	35.40	34	29.28	29.12
11 BUNCOMBE	29	32.02	159	35.91	30.18
12 BURKE	14	35.71	53	27.42	24.90
13 CABARRUS	20	40.88	96	40.05	36.21
14 CALDWELL	11	30.42	42	23.63	24.23
15 CAMDEN	0	0.00	7	46.56	39.48
16 CARTERET	10	39.32	42	34.46	34.96
17 CASWELL	3	26.21	12	21.35	22.65
18 CATAWBA	19	31.66	99	30.91	30.93
19 CHATHAM	2	10.73	24	26.54	25.19
20 CHEROKEE	2	18.34	15	28.49	19.78
21 CHOWAN	4	54.61	20	56.67	50.18
22 CLAY	2	55.14	8	44.85	29.96
23 CLEVELAND	16	35.42	71	31.91	29.85
24 COLUMBUS	11	39.62	38	27.92	28.67
25 CRAVEN	8	20.27	51	26.65	31.80
26 CUMBERLAND	22	17.61	123	20.11	29.72
27 CURRITUCK	0	0.00	8	25.06	24.65
28 DARE	5	49.68	14	31.77	26.50
29 DAVIDSON	18	28.26	85	27.83	30.42
30 DAVIE	4	28.71	23	32.98	38.84
31 DUPLIN	5	22.85	35	32.23	29.67
32 DURHAM	28	30.81	140	32.15	32.67
33 EDGECOMBE	11	34.36	44	28.08	28.60
34 FORSYTH	50	35.55	224	32.77	31.59
35 FRANKLIN	5	27.10	19	22.09	18.29
36 GASTON	23	25.37	101	22.67	22.90
37 GATES	3	61.42	7	29.82	18.57
38 GRAHAM	1	27.81	3	16.66	12.83
39 GRANVILLE	4	20.75	21	22.61	19.25
40 GREENE	2	23.60	7	16.55	17.07
41 GUILFORD	46	26.00	297	34.35	33.95

* SEE SECTION I

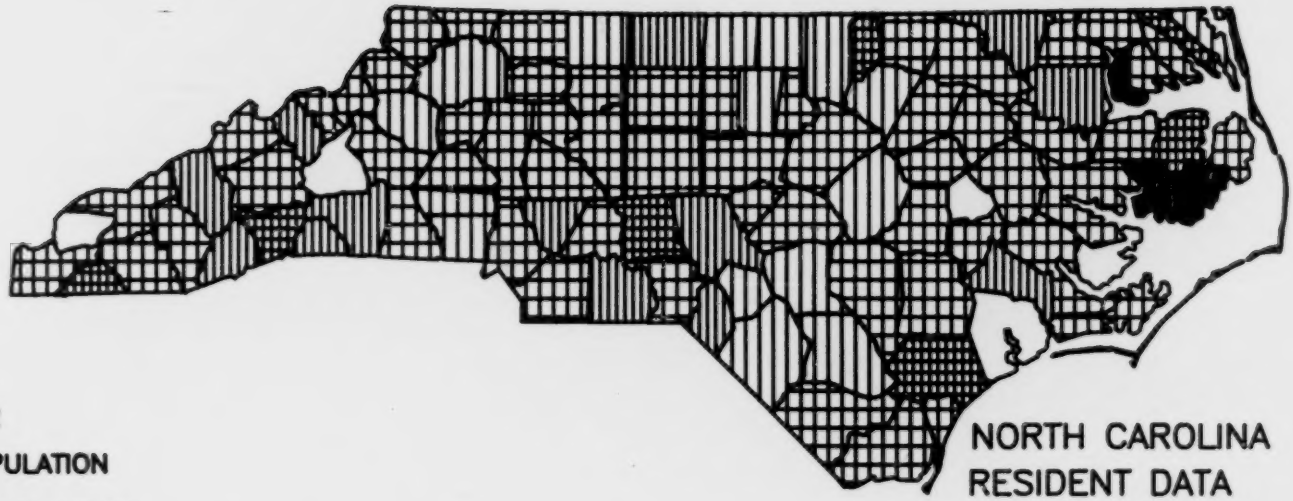
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF FEMALE BREAST CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	8	26.96	47	32.20	26.82
43 HARNETT	13	38.95	45	27.77	29.60
44 HAYWOOD	11	44.15	46	37.22	46.42
45 HENDERSON	21	59.07	78	45.34	33.30
46 HERTFORD	4	31.90	20	32.10	29.27
47 HOKE	0	0.00	11	18.82	21.26
48 HYDE	2	67.20	9	52.86	43.45
49 IREDELL	20	42.86	79	34.89	33.27
50 JACKSON	5	35.95	21	30.35	28.09
51 JOHNSTON	11	26.55	49	24.66	22.75
52 JONES	3	54.94	11	41.63	34.53
53 LEE	8	36.75	34	32.29	32.39
54 LENOIR	9	28.01	55	34.34	31.39
55 LINCOLN	5	20.59	29	24.96	31.00
56 MCDOWELL	4	21.30	13	13.91	10.84
57 MACON	3	24.92	18	30.40	18.06
58 MADISON	4	45.31	13	29.72	20.64
59 MARTIN	7	49.06	25	35.50	31.39
60 MECKLENBURG	75	30.72	357	30.84	33.57
61 MITCHELL	6	80.11	11	29.67	20.58
62 MONTGOMERY	2	16.14	28	46.21	42.58
63 MOORE	15	50.16	60	42.04	34.60
64 NASH	15	39.24	53	28.46	26.94
65 NEW HANOVER	20	32.69	94	31.88	32.60
66 NORTHAMPTON	6	52.77	24	42.19	34.63
67 ONSLOW	17	32.58	39	15.48	23.49
68 ORANGE	5	11.06	49	22.62	30.84
69 PAMLICO	1	17.63	3	10.58	10.25
70 PASQUOTANK	3	18.80	21	27.37	26.36
71 PENDER	8	59.19	29	46.07	42.48
72 PERQUIMANS	2	35.26	8	29.74	25.43
73 PERSON	4	24.69	20	25.31	22.80
74 PITT	14	26.42	79	30.88	36.45
75 POLK	3	39.23	14	37.09	21.12
76 RANDOLPH	16	30.85	81	32.27	35.16
77 RICHMOND	4	16.62	39	32.61	30.27
78 ROBESON	15	26.43	57	20.49	23.44
79 ROCKINGHAM	21	46.78	84	37.76	35.06
80 ROWAN	20	36.76	84	31.47	27.36
81 RUTHERFORD	12	40.00	55	37.13	28.47
82 SAMPSON	10	37.78	45	34.36	31.84
83 SCOTLAND	3	16.61	35	39.61	44.18
84 STANLY	7	26.59	44	33.91	32.00
85 STOKES	4	21.55	21	23.24	21.01
86 SURRY	14	43.38	46	29.07	28.44
87 SWAIN	0	0.00	9	32.10	28.63
88 TRANSYLVANIA	4	30.09	25	38.56	27.60
89 TYRRELL	1	45.33	5	45.78	46.53
90 UNION	12	28.52	55	27.43	30.57
91 VANCE	8	38.85	46	45.88	43.13
92 WAKE	40	20.87	251	28.00	34.07
93 WARREN	2	22.89	15	34.98	28.99
94 WASHINGTON	2	26.16	11	29.23	25.74
95 WATAUGA	9	50.83	31	35.50	33.25
96 WAYNE	18	35.31	70	27.63	28.70
97 WILKES	6	19.14	30	19.37	16.08
98 WILSON	11	31.56	56	32.67	32.67
99 YADKIN	7	45.86	27	35.98	26.52
100 YANCEY	3	36.55	16	39.96	64.69

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF THE FEMALE BREAST



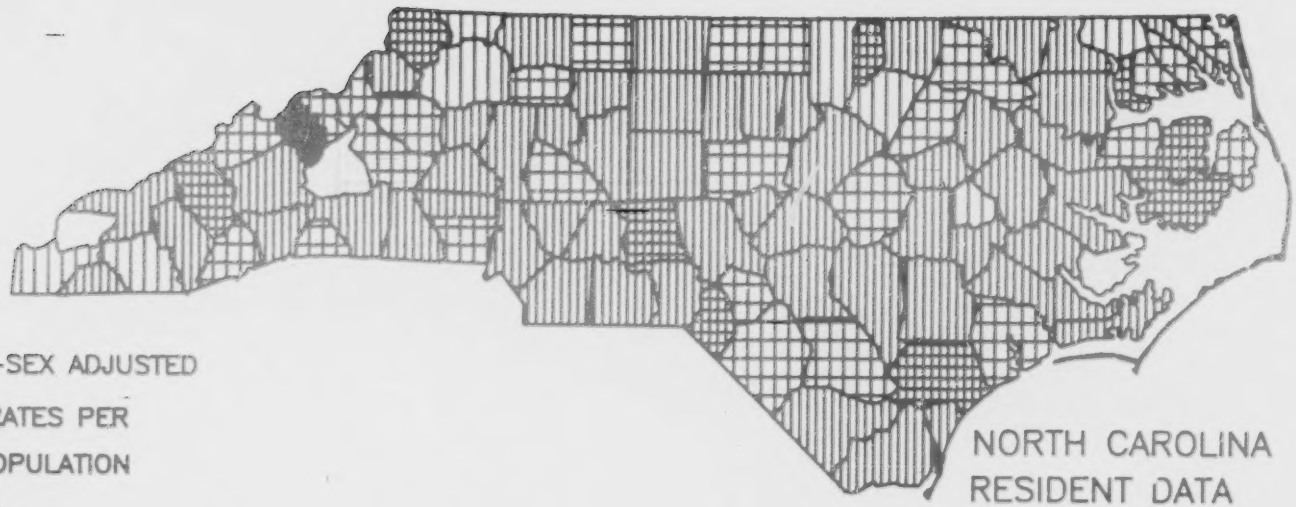
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 52.86 to 56.68
- 44.86 to 46.57
- 37.09 to 42.19
- 26.54 to 35.99
- 18.83 to 25.32
- 10.59 to 16.66

FIGURE 14.A

CANCER OF THE FEMALE BREAST



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE--RACE--SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 64.70
- 42.49 to 50.19
- 28.10 to 39.49
- 20.58 to 27.60
- 16.09 to 19.78
- 10.26 to 12.84

5-71

FIGURE 14.B

TABLE 15

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF CERVIX UTERI

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	144	4.33	746	4.62	4.62
REGIONS					
DHR I WESTERN	45	3.94	227	4.09	4.36
DHR II N. CENTRAL	28	3.95	156	4.52	4.40
DHR III S. CENTRAL	37	4.11	163	4.35	4.44
DHR IV EASTERN	39	5.60	200	5.90	5.26
HSA I WESTERN	23	4.08	124	4.48	5.12
HSA II PIEDMONT	23	3.67	129	4.23	4.26
HSA III S. PIEDMONT	22	3.81	103	3.70	3.91
HSA IV CAPITAL	20	4.06	93	3.96	3.97
HSA V CARDINAL	28	5.64	133	5.51	5.41
HSA VI EASTERN	28	4.93	164	5.90	5.15
COUNTIES					
1 ALAMANCE	3	5.39	16	5.90	5.44
2 ALEXANDER	0	0.00	0	0.00	0.00
3 ALLEGHANY	0	0.00	0	0.00	0.00
4 ANSON	0	0.00	5	7.15	4.46
5 ASHE	0	0.00	0	0.00	0.00
6 AVERY	0	0.00	2	5.29	4.76
7 BEAUFORT	0	0.00	6	5.32	4.20
8 BERTIE	1	8.86	3	5.31	2.02
9 BLADEN	0	0.00	3	3.76	3.77
10 BRUNSWICK	5	19.66	6	5.16	4.79
11 BUNCOMBE	2	2.20	19	4.29	4.16
12 BURKE	3	7.65	10	5.17	7.57
13 CABARRUS	1	2.04	10	4.17	4.24
14 CALDWELL	1	2.76	10	5.62	8.10
15 CAMDEN	0	0.00	1	6.65	6.61
16 CARTERET	1	3.93	5	4.10	3.30
17 CASWELL	0	0.00	3	5.33	5.41
18 CATAWBA	3	4.99	17	5.84	7.30
19 CHATHAM	0	0.00	0	0.00	0.00
20 CHEROKEE	0	0.00	1	1.89	1.49
21 CHOWAN	0	0.00	1	2.83	1.30
22 CLAY	0	0.00	1	5.60	4.64
23 CLEVELAND	0	0.00	7	3.14	3.18
24 COLUMBUS	0	0.00	5	3.67	3.19
25 CRAVEN	3	7.60	11	5.75	5.59
26 CUMBERLAND	5	4.00	22	3.59	4.36
27 CURRITUCK	0	0.00	0	0.00	0.00
28 DARE	0	0.00	0	0.00	0.00
29 DAVIDSON	4	6.28	18	5.89	6.31
30 DAVIE	0	0.00	1	1.43	1.25
31 DUPLIN	2	9.14	10	9.20	8.30
32 DURHAM	7	7.70	22	5.05	4.88
33 EDGECOMBE	1	3.12	10	6.38	4.85
34 FORSYTH	3	2.13	24	3.51	3.40
35 FRANKLIN	1	5.42	3	3.48	2.55
36 GASTON	6	6.62	25	5.61	5.50
37 GATES	0	0.00	0	0.00	0.00
38 GRAHAM	2	55.63	3	16.66	36.12
39 GRANVILLE	0	0.00	8	8.61	4.05
40 GREENE	0	0.00	1	2.36	1.93
41 GUILFORD	5	2.82	32	3.70	3.61

* SEE SECTION I

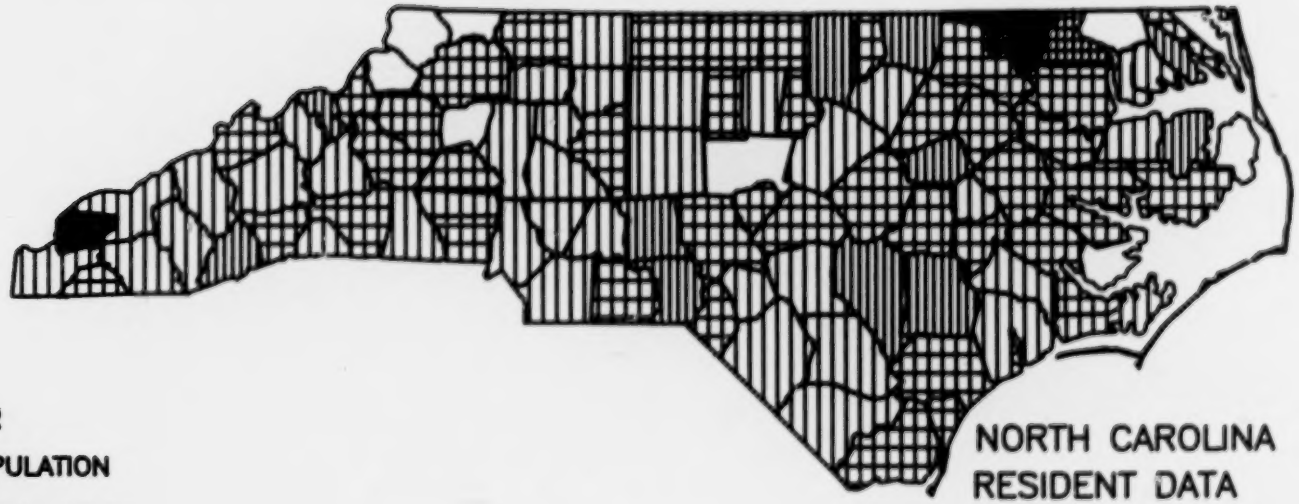
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF CERVIX UTERI CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	2	6.74	10	6.85	3.46
43 HARNETT	2	5.99	11	6.79	7.06
44 HAYWOOD	0	0.00	2	1.61	1.09
45 HENDERSON	2	5.62	9	5.23	3.27
46 HERTFORD	1	7.97	8	12.84	8.76
47 HOKE	0	0.00	1	1.71	3.10
48 HYDE	0	0.00	1	6.60	4.15
49 IREDELL	1	2.14	10	4.41	4.56
50 JACKSON	1	7.19	2	2.89	2.59
51 JOHNSTON	2	4.84	10	5.03	5.16
52 JONES	1	18.31	1	3.78	1.73
53 LEE	1	4.59	6	5.69	5.87
54 LENOIR	3	9.33	9	5.62	3.97
55 LINCOLN	0	0.00	2	1.72	1.46
56 MCDOWELL	0	0.00	2	2.14	1.63
57 MACON	0	0.00	1	1.68	0.90
58 MADISON	1	11.32	3	6.85	5.68
59 MARTIN	1	7.00	5	7.10	5.62
60 MECKLENBURG	12	4.91	38	3.28	3.49
61 MITCHELL	0	0.00	4	10.79	7.22
62 MONTGOMERY	0	0.00	5	8.25	7.19
63 MOORE	2	6.68	11	7.70	6.65
64 NASH	1	2.61	10	5.36	4.87
65 NEW HANOVER	4	6.53	21	7.12	7.15
66 NORTHAMPTON	1	8.79	9	15.82	9.09
67 ONSLOW	3	5.75	7	2.77	5.14
68 ORANGE	1	2.21	4	1.84	2.58
69 PAMLICO	0	0.00	0	0.00	0.00
70 PASQUOTANK	1	6.26	7	9.12	8.81
71 PENDER	2	14.79	4	6.35	4.44
72 PERQUIMANS	0	0.00	1	3.71	1.55
73 PERSON	2	12.34	6	7.59	6.80
74 PITT	0	0.00	16	6.25	5.32
75 POLK	0	0.00	1	2.64	2.24
76 RANDOLPH	3	5.78	8	3.18	3.97
77 RICHMOND	1	4.15	11	9.19	8.07
78 ROBESON	3	5.28	11	3.95	4.78
79 ROCKINGHAM	3	6.68	15	7.19	6.88
80 ROWAN	1	1.83	11	4.12	4.05
81 RUTHERFORD	4	13.33	11	7.42	8.33
82 SAMPSON	3	11.33	12	9.16	6.71
83 SCOTLAND	1	5.53	5	5.65	5.18
84 STANLY	0	0.00	3	2.31	2.54
85 STOKES	1	5.38	2	2.21	6.02
86 SURRY	1	3.09	8	5.05	6.47
87 SWAIN	0	0.00	1	3.56	3.35
88 TRANSYLVANIA	4	30.09	7	10.79	13.19
89 TYRRELL	0	0.00	1	9.15	12.17
90 UNION	1	2.37	4	1.99	2.60
91 VANCE	1	4.85	6	5.98	5.92
92 WAKE	4	2.08	24	2.67	3.05
93 WARREN	1	11.44	4	9.33	9.62
94 WASHINGTON	0	0.00	1	2.65	1.74
95 WATAUGA	0	0.00	0	0.00	0.00
96 WAYNE	4	7.84	14	5.52	5.15
97 WILKES	0	0.00	10	6.45	7.10
98 WILSON	2	5.73	16	9.33	9.04
99 YADKIN	0	0.00	1	1.33	0.95
100 YANCEY	0	0.00	1	2.49	1.98

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF THE CERVIX UTERI



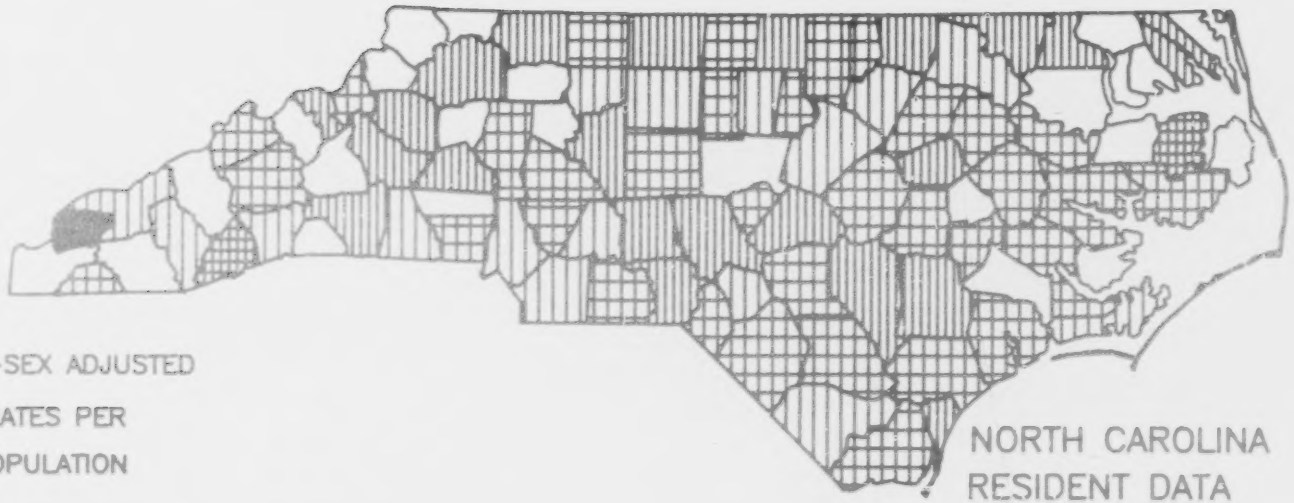
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

	15.82 to 16.66
	12.84 to 12.84
	8.25 to 10.80
	5.03 to 7.71
	1.33 to 4.42
	0.00

FIGURE 15.A

CANCER OF THE CERVIX UTERI



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AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 36.13
- 12.17 to 13.19
- 6.32 to 9.62
- 3.78 to 6.03
- 2.55 to 3.62
- 0.00 to 2.25

NORTH CAROLINA
RESIDENT DATA
1983 – 1987

FIGURE 15.B

TABLE 16

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF OVARY AND OTHER UTERINE ADNEXA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	284	8.54	1371	8.50	8.50
REGIONS					
DHR I WESTERN	106	9.29	509	9.17	8.52
DHR II N. CENTRAL	65	9.17	341	9.88	9.37
DHR III S. CENTRAL	55	7.07	232	6.19	7.10
DHR IV EASTERN	58	8.33	289	8.53	8.63
HSA I WESTERN	53	9.41	279	10.09	9.01
HSA II PIEDMONT	62	9.91	314	10.30	9.81
HSA III S. PIEDMONT	53	9.17	230	8.26	8.21
HSA IV CAPITAL	38	7.71	149	6.35	6.98
HSA V CARDINAL	33	6.64	166	6.88	7.52
HSA VI EASTERN	45	7.92	233	8.39	8.49
COUNTIES					
1 ALAMANCE	3	5.39	23	8.49	7.26
2 ALEXANDER	0	0.00	2	2.98	7.34
3 ALLEGHANY	0	0.00	4	15.83	10.75
4 ANSON	2	14.19	5	7.15	7.15
5 ASHE	1	8.30	5	8.35	31.49
6 AVERY	0	0.00	2	5.29	4.14
7 BEAUFORT	2	8.86	14	12.42	10.36
8 BERTIE	0	0.00	6	10.63	7.18
9 BLADEN	2	12.47	8	10.04	12.32
10 BRUNSWICK	2	7.86	14	12.05	12.82
11 BUNCOMBE	15	16.56	62	14.00	12.24
12 BURKE	2	5.10	14	7.24	8.64
13 CABARRUS	4	8.17	24	10.01	9.73
14 CALDWELL	4	11.06	17	9.56	11.29
15 CAMDEN	0	0.00	0	0.00	0.00
16 CARTERET	1	3.93	13	10.66	10.78
17 CASWELL	0	0.00	8	14.23	14.00
18 CATAWBA	7	11.66	30	10.30	9.50
19 CHATHAM	1	5.36	5	5.53	5.30
20 CHEROKEE	3	27.52	6	11.39	15.71
21 CHOWAN	0	0.00	3	8.50	6.98
22 CLAY	0	0.00	0	0.00	0.00
23 CLEVELAND	3	6.64	19	8.54	7.74
24 COLUMBUS	2	7.20	8	5.87	5.46
25 CRAVEN	5	12.67	14	7.31	8.63
26 CUMBERLAND	4	3.20	27	4.41	7.12
27 CURRITUCK	0	0.00	1	3.13	3.07
28 DARE	1	9.93	1	2.26	6.35
29 DAVIDSON	10	15.70	35	11.46	10.44
30 DAVIE	2	14.35	10	14.33	15.08
31 DUPLIN	3	13.71	11	10.12	9.56
32 DURHAM	8	8.80	27	6.20	7.10
33 EDGECOMBE	2	6.24	17	10.85	10.18
34 FORSYTH	14	9.95	67	9.80	9.62
35 FRANKLIN	1	5.42	8	9.30	7.84
36 GASTON	11	12.13	34	7.63	7.53
37 GATES	0	0.00	1	4.26	1.62
38 GRAHAM	0	0.00	2	11.10	8.30
39 GRANVILLE	0	0.00	4	4.30	3.41
40 GREENE	0	0.00	0	0.00	0.00
41 GUILFORD	18	10.17	84	9.71	9.67

* SEE SECTION I

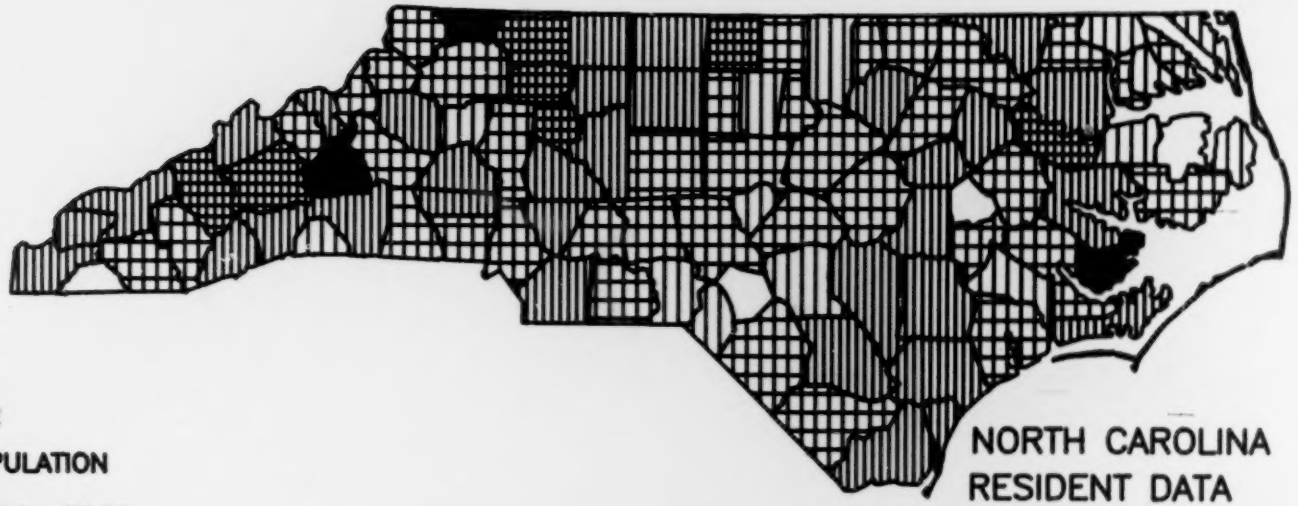
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF OVARY AND OTHER UTERINE ADNEXA CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	4	13.48	11	7.53	6.67
43 HARNETT	2	5.99	13	8.02	8.14
44 HAYWOOD	4	16.05	16	12.94	8.28
45 HENDERSON	3	8.43	21	12.20	7.47
46 HERTFORD	1	7.97	5	8.02	4.17
47 HOKE	0	0.00	0	0.00	0.00
48 HYDE	1	33.60	1	6.60	2.60
49 IREDELL	3	6.43	16	7.06	5.99
50 JACKSON	1	7.19	6	8.67	7.85
51 JOHNSTON	7	16.96	16	8.05	7.37
52 JONES	0	0.00	1	3.78	4.80
53 LEE	2	9.18	4	3.79	3.77
54 LENOIR	2	6.22	14	8.74	9.08
55 LINCOLN	2	8.23	13	11.18	10.13
56 MCDOWELL	2	10.65	15	16.05	12.76
57 MACON	2	16.61	3	5.06	2.83
58 MADISON	1	11.32	4	9.14	7.57
59 MARTIN	3	21.02	10	14.20	14.52
60 MECKLENBURG	21	8.60	88	7.60	8.52
61 MITCHELL	1	13.35	4	10.79	6.80
62 MONTGOMERY	0	0.00	5	8.25	7.51
63 MOORE	2	6.68	11	7.70	5.85
64 NASH	3	7.84	12	6.44	6.76
65 NEW HANOVER	9	14.71	28	9.49	9.73
66 NORTHAMPTON	1	8.79	6	10.54	8.37
67 ONSLOW	5	9.58	22	8.73	15.35
68 ORANGE	1	2.21	9	4.15	5.91
69 PAMLICO	1	17.63	5	17.64	13.94
70 PASQUOTANK	1	6.26	5	6.51	6.62
71 PENDER	0	0.00	6	9.53	10.16
72 PERQUIMANS	0	0.00	1	3.71	3.20
73 PERSON	0	0.00	5	6.32	6.38
74 PITT	1	1.88	15	5.86	6.65
75 POLK	0	0.00	1	2.64	2.50
76 RANDOLPH	4	7.71	19	7.57	9.31
77 RICHMOND	1	4.15	5	4.18	3.59
78 ROBESON	3	5.28	19	6.83	7.95
79 ROCKINGHAM	4	8.91	26	11.68	10.37
80 ROWAN	6	11.03	25	9.36	8.01
81 RUTHERFORD	3	10.00	16	10.80	8.69
82 SAMPSON	4	15.11	15	11.45	9.50
83 SCOTLAND	0	0.00	2	2.26	2.35
84 STANLY	2	7.59	11	8.47	7.48
85 STOKES	2	10.77	9	9.96	11.06
86 SURRY	4	12.39	23	14.53	14.09
87 SWAIN	0	0.00	3	10.70	7.48
88 TRANSYLVANIA	1	7.52	6	9.25	6.32
89 TYRRELL	0	0.00	0	0.00	0.00
90 UNION	4	9.50	19	9.47	10.57
91 VANCE	2	9.71	7	6.98	5.27
92 WAKE	16	8.35	61	6.80	8.23
93 WARREN	0	0.00	3	6.99	4.63
94 WASHINGTON	0	0.00	1	2.65	1.73
95 WATAUGA	0	0.00	6	6.87	6.34
96 WAYNE	5	9.81	27	10.65	11.27
97 WILKES	0	0.00	12	7.75	6.47
98 WILSON	3	8.60	16	9.33	8.89
99 YADKIN	1	6.55	10	13.32	13.75
100 YANCEY	0	0.00	3	7.49	5.41

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF OVARY AND OTHER UTERINE ADNEXA



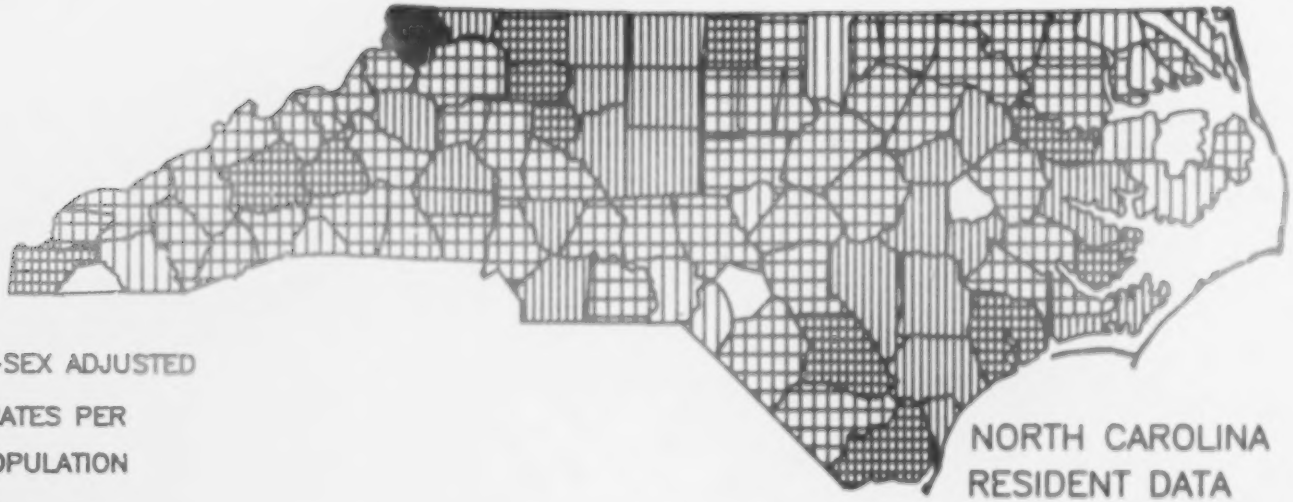
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 15.83 to 17.65
- 12.95 to 14.54
- 9.14 to 12.43
- 5.07 to 8.74
- 2.26 to 4.41
- 0.00

FIGURE 16.A

CANCER OF OVARY AND OTHER UTERINE ADNEXA



5-83

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 31.50
- 12.25 to 15.71
- 8.89 to 11.29
- 4.15 to 8.69
- 1.62 to 3.77
- 0.00

NORTH CAROLINA
RESIDENT DATA
1983 – 1987

FIGURE 16.B

TABLE 17

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CANCER OF PROSTATE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	784	25.37	3537	23.39	23.39
REGIONS					
DHR I WESTERN	249	23.66	1176	22.84	22.94
DHR II N. CENTRAL	156	24.25	753	23.87	22.88
DHR III S. CENTRAL	169	23.05	754	21.15	23.88
DHR IV EASTERN	210	31.73	854	26.25	23.87
HSA I WESTERN	140	26.80	622	24.12	22.27
HSA II PIEDMONT	131	23.13	647	23.27	23.50
HSA III S. PIEDMONT	109	20.57	554	21.56	23.38
HSA IV CAPITAL	105	23.10	466	21.39	22.34
HSA V CARDINAL	136	28.78	558	24.02	25.06
HSA VI EASTERN	163	29.93	690	25.65	23.19
COUNTIES					
1 ALAMANCE	12	24.33	58	23.95	22.21
2 ALEXANDER	2	14.88	12	18.17	22.96
3 ALLEGHANY	3	63.91	7	29.69	16.63
4 ANSON	6	49.50	18	29.48	21.14
5 ASHE	3	26.52	24	42.49	23.70
6 AVERY	2	26.67	8	21.51	15.60
7 BEAUFORT	7	34.67	37	36.41	26.34
8 BERTIE	3	30.44	19	37.99	23.23
9 BLADEN	7	47.47	21	28.37	22.71
10 BRUNSWICK	11	45.43	25	22.43	21.02
11 BUNCOMBE	22	27.18	101	25.42	21.82
12 BURKE	6	16.20	28	15.27	16.73
13 CABARRUS	5	11.15	27	12.23	11.72
14 CALDWELL	14	40.67	36	21.21	31.20
15 CAMDEN	1	34.29	5	34.90	26.45
16 CARTERET	9	35.91	31	25.73	31.30
17 CASWELL	4	36.33	15	27.42	22.92
18 CATAWBA	7	12.54	40	14.71	19.86
19 CHATHAM	4	22.59	26	29.96	23.70
20 CHEROKEE	0	0.00	9	18.56	9.77
21 CHOWAN	4	64.40	20	65.64	34.77
22 CLAY	0	0.00	3	17.05	8.15
23 CLEVELAND	14	34.04	51	24.96	23.59
24 COLUMBUS	12	47.81	43	34.54	29.21
25 CRAVEN	4	9.80	22	10.99	13.25
26 CUMBERLAND	13	9.78	80	12.07	25.81
27 CURRITUCK	2	28.60	10	29.85	29.07
28 DARE	2	20.14	10	22.94	15.92
29 DAVIDSON	6	10.05	46	15.95	19.28
30 DAVIE	1	7.42	13	19.19	22.36
31 DUPLIN	8	40.46	41	41.34	32.29
32 DURHAM	19	24.24	96	25.31	22.61
33 EDGECOMBE	19	70.07	53	39.25	34.21
34 FORSYTH	35	28.18	161	26.48	25.86
35 FRANKLIN	5	29.84	19	24.01	14.44
36 GASTON	16	19.50	76	18.71	22.72
37 GATES	0	0.00	7	29.93	14.95
38 GRAHAM	2	56.67	5	29.23	13.21
39 GRANVILLE	6	31.66	20	21.77	12.21
40 GREENE	2	25.01	6	14.91	8.39
41 GUILFORD	39	24.87	190	24.57	24.74

* SEE SECTION I

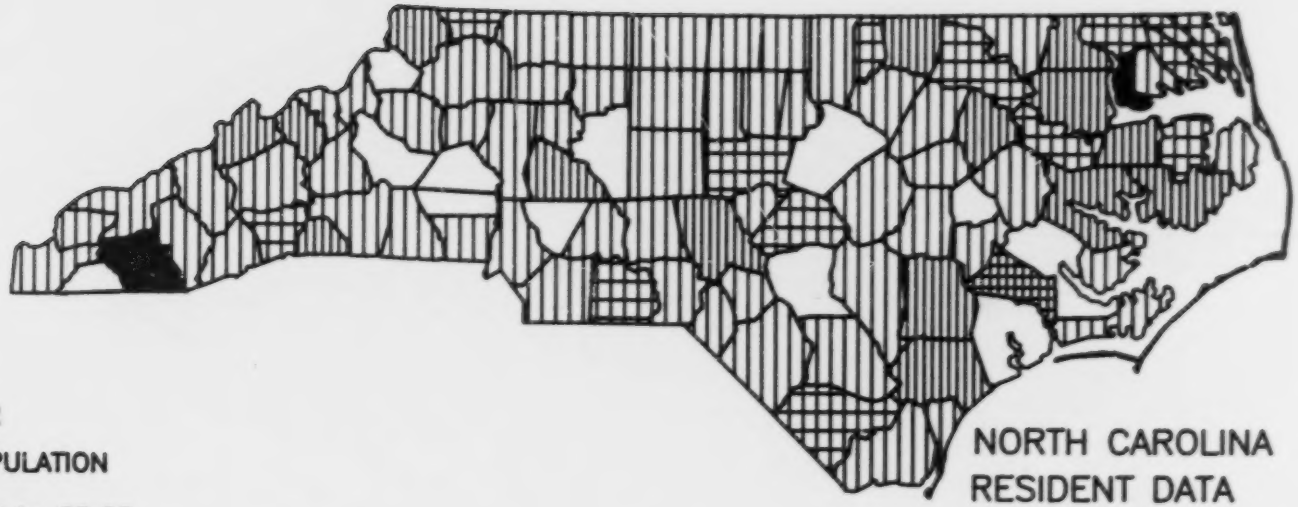
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CANCER OF PROSTATE CONT'D.

	COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42	HALIFAX	15	55.72	44	32.83	18.79
43	HARNETT	11	34.81	48	31.22	33.88
44	HAYWOOD	8	34.61	27	23.45	16.00
45	HENDERSON	8	24.67	53	33.63	32.89
46	HERTFORD	4	35.32	27	47.30	20.49
47	HOKE	2	17.30	10	17.99	21.53
48	HYDE	0	0.00	6	41.63	32.59
49	IREDELL	11	25.44	51	24.20	21.83
50	JACKSON	3	23.20	14	21.45	17.99
51	JOHNSTON	15	39.50	51	27.75	27.48
52	JONES	2	43.19	13	56.82	34.65
53	LEE	4	20.37	19	19.83	20.13
54	LENOIR	7	24.80	37	26.02	21.51
55	LINCOLN	1	4.31	19	17.09	17.20
56	MCDOWELL	7	39.82	19	21.65	19.81
57	MACON	9	80.94	36	65.23	42.74
58	MADISON	3	35.08	17	40.18	63.93
59	MARTIN	5	39.85	19	30.24	21.87
60	MECKLENBURG	41	18.44	220	20.73	25.07
61	MITCHELL	1	14.10	9	25.60	13.07
62	MONTGOMERY	2	16.86	14	24.02	20.67
63	MOORE	9	32.56	51	38.45	24.59
64	NASH	9	26.37	44	26.22	25.01
65	NEW HANOVER	17	30.81	73	27.32	28.97
66	NORTHAMPTON	4	36.77	15	27.26	14.37
67	ONSLOW	8	10.88	34	9.44	30.75
68	ORANGE	7	17.05	38	19.23	23.41
69	PAMLICO	4	77.50	6	23.07	17.12
70	PASQUOTANK	4	27.55	22	31.15	24.22
71	PENDER	7	54.85	23	38.30	23.60
72	PERQUIMANS	0	0.00	7	28.80	13.97
73	PERSON	4	27.04	18	24.68	21.59
74	PITT	16	34.32	55	24.24	23.76
75	POLK	6	87.31	16	46.98	20.61
76	RANDOLPH	10	20.56	44	18.59	21.34
77	RICHMOND	9	41.13	31	28.31	23.23
78	ROBESON	15	29.72	66	26.25	21.86
79	ROCKINGHAM	8	19.50	50	24.46	22.43
80	ROWAN	23	45.68	92	36.99	29.22
81	RUTHERFORD	4	14.74	27	20.02	15.88
82	SAMPSON	9	37.20	34	28.15	20.81
83	SCOTLAND	6	36.80	21	26.09	26.27
84	STANLY	5	20.67	32	26.67	27.62
85	STOKES	1	5.67	18	20.86	27.69
86	SURRY	7	23.48	31	21.13	22.78
87	SWAIN	1	19.79	7	27.32	17.96
88	TRANSYLVANIA	5	39.51	16	25.69	15.84
89	TYRRELL	0	0.00	3	30.97	17.32
90	UNION	7	17.59	37	19.40	22.12
91	VANCE	5	26.97	31	33.99	22.86
92	WAKE	31	16.94	130	15.09	22.01
93	WARREN	5	63.89	18	46.02	23.10
94	WASHINGTON	2	28.51	13	37.10	30.04
95	WATAUGA	1	5.92	11	13.14	10.39
96	WAYNE	14	29.66	51	21.49	22.20
97	WILKES	7	23.42	31	20.90	27.63
98	WILSON	8	26.26	33	21.78	16.91
99	YADKIN	8	54.45	21	29.00	29.64
100	YANCEY	2	25.88	15	39.53	21.53

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CANCER OF THE PROSTATE



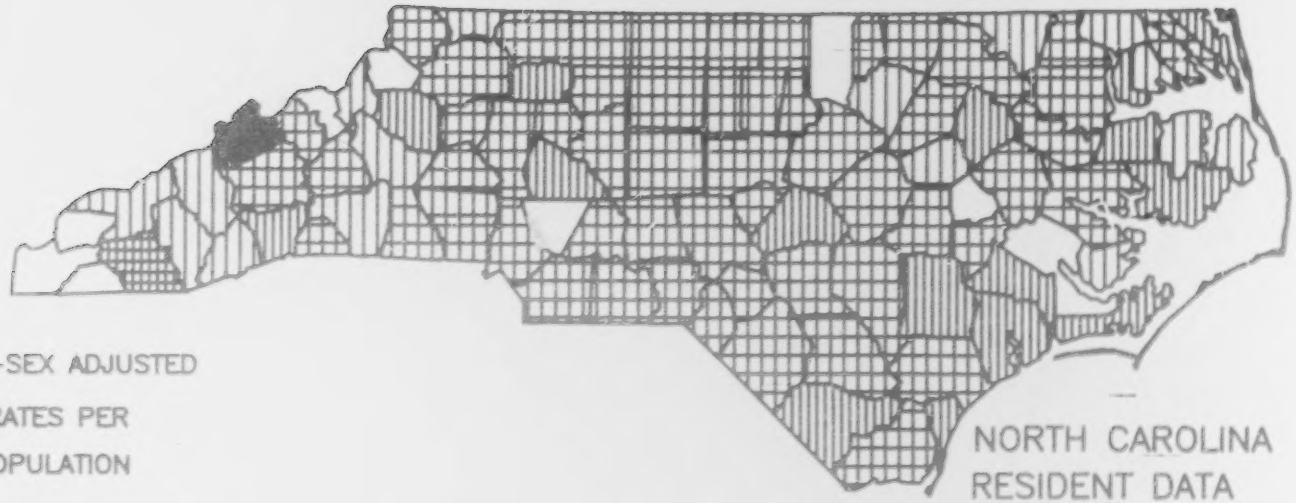
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 65.24 to 65.65
- 56.83 to 56.83
- 36.42 to 47.30
- 29.49 to 34.91
- 18.00 to 29.01
- 9.45 to 17.10

FIGURE 17.A

CANCER OF THE PROSTATE



5-89

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 63.93
- 42.74
- 28.98 to 34.77
- 18.79 to 27.70
- 13.98 to 18.00
- 8.16 to 13.26

NORTH CAROLINA
RESIDENT DATA
1983 – 1987

FIGURE 17.B

TABLE 18

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

LEUKEMIA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	403	6.28	1980	6.33	6.33
REGIONS					
DHR I WESTERN	138	6.29	723	6.76	6.29
DHR II N. CENTRAL	85	6.29	429	6.49	6.19
DHR III S. CENTRAL	85	5.62	416	5.69	6.50
DHR IV EASTERN	95	6.99	412	6.20	6.54
HSA I WESTERN	75	6.91	397	7.43	6.26
HSA II PIEDMONT	79	6.63	373	6.40	6.14
HSA III S. PIEDMONT	63	5.69	326	6.09	6.15
HSA IV CAPITAL	43	4.54	273	6.03	6.49
HSA V CARDINAL	69	7.12	284	5.99	6.81
HSA VI EASTERN	74	6.65	327	5.98	6.26
COUNTIES					
1 ALAMANCE	7	6.67	39	7.60	6.60
2 ALEXANDER	1	3.69	6	4.50	6.23
3 ALLEGHANY	1	10.27	3	6.14	3.80
4 ANSON	3	11.44	9	6.87	5.42
5 ASHE	4	17.12	12	10.31	6.67
6 AVERY	0	0.00	4	5.33	4.66
7 BEAUFORT	3	7.01	18	8.40	7.69
8 BERTIE	1	4.73	9	8.45	6.45
9 BLADEN	1	3.24	10	6.50	6.24
10 BRUNSWICK	5	10.07	15	6.59	6.71
11 BUNCOMBE	17	9.91	69	8.21	6.25
12 BURKE	2	2.62	22	5.84	5.68
13 CABARRUS	10	10.67	36	7.81	7.31
14 CALDWELL	4	5.66	29	8.34	9.16
15 CAMDEN	0	0.00	3	10.21	10.04
16 CARTERET	1	1.98	13	5.36	6.33
17 CASWELL	1	4.45	9	8.11	6.19
18 CATAWBA	7	6.04	33	5.86	5.42
19 CHATHAM	3	8.25	18	10.15	8.99
20 CHEROKEE	1	4.78	10	9.89	9.06
21 CHOWAN	0	0.00	2	3.04	2.45
22 CLAY	0	0.00	3	8.46	4.54
23 CLEVELAND	6	6.95	41	9.60	9.09
24 COLUMBUS	4	7.56	14	5.37	5.63
25 CRAVEN	5	6.22	22	5.62	6.66
26 CUMBERLAND	13	5.04	38	2.98	4.45
27 CURRITUCK	2	14.61	4	6.11	6.21
28 DARE	2	10.00	4	4.56	3.79
29 DAVIDSON	9	7.29	37	6.23	6.23
30 DAVIE	7	25.54	16	11.64	11.56
31 DUPLIN	4	9.60	14	6.73	5.75
32 DURHAM	13	7.68	56	6.87	7.05
33 EDGECOMBE	6	10.14	18	6.17	7.24
34 FORSYTH	22	8.30	81	6.27	6.22
35 FRANKLIN	0	0.00	7	4.23	4.29
36 GASTON	12	6.94	59	6.92	6.80
37 GATES	1	10.32	5	10.67	9.87
38 GRAHAM	2	28.07	4	11.20	7.41
39 GRANVILLE	2	5.23	16	8.66	5.88
40 GREENE	1	6.07	5	6.05	8.15
41 GUILFORD	17	5.09	104	6.35	6.27

* SEE SECTION I

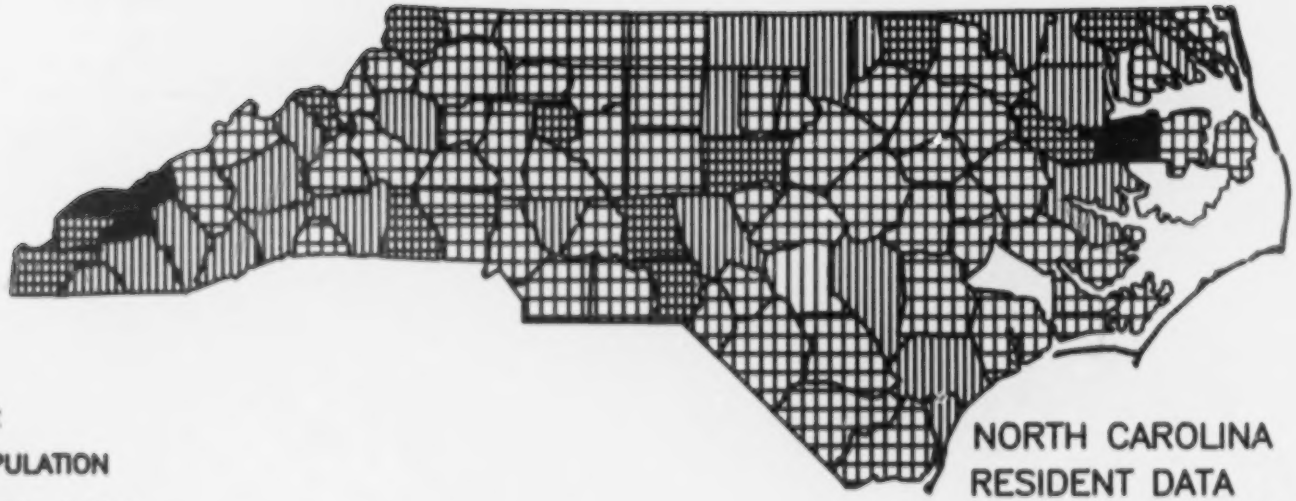
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
LEUKEMIA CONT'D.

	COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42	HALIFAX	4	7.06	14	5.00	3.42
43	HARNETT	6	9.23	22	6.96	7.46
44	HAYWOOD	2	4.16	15	6.28	4.22
45	HENDERSON	5	7.35	24	7.28	4.18
46	HERTFORD	2	8.38	10	8.37	8.03
47	HOKE	2	8.34	5	4.38	4.49
48	HYDE	0	0.00	0	0.00	0.00
49	IREDELL	1	1.11	29	6.63	6.24
50	JACKSON	3	11.17	10	7.43	6.90
51	JOHNSTON	2	2.52	20	5.23	5.12
52	JONES	0	0.00	0	0.00	0.00
53	LEE	2	4.83	12	5.96	6.33
54	LENOIR	5	8.28	16	5.29	5.61
55	LINCOLN	1	2.10	9	3.95	3.34
56	MCDOWELL	3	8.25	11	6.07	4.73
57	MACON	4	17.27	10	8.74	28.63
58	MADISON	0	0.00	5	5.81	4.21
59	MARTIN	1	3.72	14	10.50	8.52
60	MECKLENBURG	27	5.78	126	5.67	6.48
61	MITCHELL	0	0.00	8	11.07	6.70
62	MONTGOMERY	4	16.49	13	10.93	9.77
63	MOORE	5	8.69	21	7.62	5.75
64	NASH	10	13.82	24	6.77	6.65
65	NEW HANOVER	11	9.45	45	8.00	8.33
66	NORTHAMPTON	1	4.49	10	8.93	10.22
67	ONSLOW	4	3.18	24	3.92	7.42
68	ORANGE	7	8.11	27	6.51	8.61
69	PAMLICO	0	0.00	2	3.68	2.36
70	PASQUOTANK	2	6.56	13	8.82	8.79
71	PENDER	1	3.80	11	8.94	8.52
72	PERQUIMANS	2	18.64	3	5.85	3.76
73	PERSON	3	9.68	11	7.24	7.29
74	PITT	5	5.02	28	5.80	7.04
75	POLK	0	0.00	5	6.96	3.65
76	RANDOLPH	9	8.95	29	5.94	5.92
77	RICHMOND	9	19.59	24	10.47	9.24
78	ROBESON	4	3.73	28	5.28	6.62
79	ROCKINGHAM	2	2.32	27	6.32	5.78
80	ROWAN	7	6.68	34	6.59	5.95
81	RUTHERFORD	5	8.75	25	8.83	7.28
82	SAMPSON	1	1.97	20	7.94	7.13
83	SCOTLAND	0	0.00	9	5.33	5.51
84	STANLY	4	7.91	14	5.60	4.82
85	STOKES	3	8.28	9	5.09	4.59
86	SURRY	1	1.61	16	5.24	4.71
87	SWAIN	3	18.13	8	14.91	12.51
88	TRANSYLVANIA	3	11.56	10	7.86	5.56
89	TYRRELL	0	0.00	1	4.85	5.37
90	UNION	1	1.22	19	4.85	5.78
91	VANCE	1	2.55	14	7.31	6.38
92	WAKE	10	2.66	84	4.77	6.04
93	WARREN	0	0.00	8	9.75	5.34
94	WASHINGTON	1	6.82	10	13.76	14.89
95	WATAUGA	1	2.89	11	6.43	5.75
96	WAYNE	7	7.13	27	5.50	6.47
97	WILKES	0	0.00	13	4.28	3.55
98	WILSON	4	6.12	14	4.33	4.48
99	YADKIN	1	3.33	6	4.06	2.94
100	YANCEY	1	6.27	6	7.69	5.33

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

LEUKEMIA



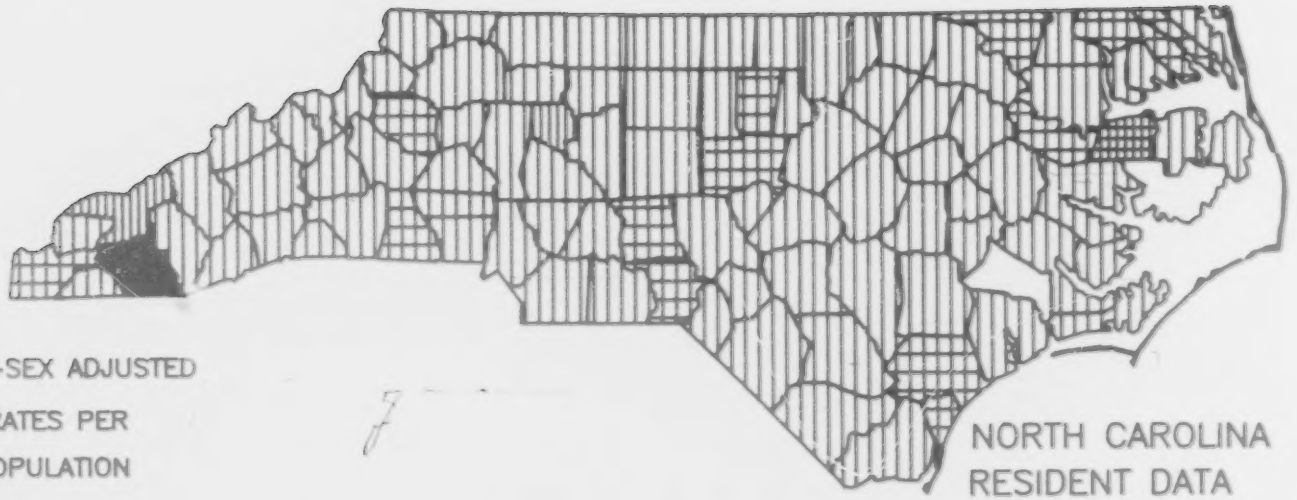
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 13.76 to 14.91
- 9.61 to 11.64
- 7.24 to 8.94
- 3.68 to 6.97
- 2.98 to 3.04
- 0.00

FIGURE 18.A

LEUKEMIA



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 28.64
- 14.90
- 11.56 to 12.52
- 8.33 to 10.22
- 2.37 to 8.15
- 0.00

FIGURE 18.B

TABLE 19

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

DIABETES MELLITUS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
NORTH CAROLINA	1025	15.98	4562	14.60	14.60
REGIONS					
DHR I WESTERN	337	15.37	1547	14.46	15.14
DHR II N. CENTRAL	256	18.94	1038	15.72	15.12
DHR III S. CENTRAL	207	13.70	969	13.25	14.31
DHR IV EASTERN	225	16.57	1008	15.18	14.15
HSA I WESTERN	172	15.84	765	14.31	15.41
HSA II PIEDMONT	211	17.71	887	15.22	15.30
HSA III S. PIEDMONT	165	14.90	782	14.61	15.44
HSA IV CAPITAL	136	14.35	578	12.78	13.02
HSA V CARDINAL	144	14.86	691	14.59	14.87
HSA VI EASTERN	197	17.70	859	15.71	14.71
COUNTIES					
1 ALAMANCE	14	13.34	88	17.15	14.95
2 ALEXANDER	2	7.38	9	6.76	12.12
3 ALLEGHANY	1	10.27	3	6.14	4.15
4 ANSON	3	11.44	16	12.21	7.57
5 ASHE	3	12.84	18	15.47	9.49
6 AVERY	2	13.19	6	8.00	6.63
7 BEAUFORT	7	16.37	39	18.20	14.37
8 BERTIE	8	37.85	21	19.73	12.44
9 BLADEN	6	19.49	36	23.43	19.80
10 BRUNSWICK	5	10.07	26	11.42	11.56
11 BUNCOMBE	32	18.66	114	13.57	13.21
12 BURKE	11	14.43	57	15.13	18.66
13 CABARRUS	11	11.73	43	9.33	8.82
14 CALDWELL	17	24.08	65	18.71	25.43
15 CAMDEN	0	0.00	9	30.65	30.73
16 CARTERET	12	23.76	47	19.39	21.01
17 CASWELL	5	22.26	18	16.23	15.96
18 CATAWBA	17	14.67	82	14.56	17.26
19 CHATHAM	1	2.75	16	9.03	7.91
20 CHEROKEE	3	14.36	10	9.89	5.22
21 CHOWAN	1	7.38	10	15.20	9.52
22 CLAY	1	13.89	5	14.11	7.73
23 CLEVELAND	15	17.38	88	20.42	20.13
24 COLUMBUS	6	11.35	38	14.38	12.21
25 CRAVEN	9	11.21	36	9.19	10.85
26 CUMBERLAND	21	8.14	113	8.86	15.62
27 CURRITUCK	3	21.91	14	21.40	21.72
28 DARE	4	20.00	9	10.26	7.73
29 DAVIDSON	20	16.27	82	13.81	16.56
30 DAVIE	1	3.64	20	14.55	15.31
31 DUPLIN	4	9.60	42	20.21	16.37
32 DURHAM	26	15.36	104	12.76	11.37
33 EDGECOMBE	9	15.22	40	13.71	10.98
34 FORSYTH	51	23.03	227	17.57	16.82
35 FRANKLIN	8	22.72	27	16.35	12.80
36 GASTON	16	9.26	104	12.21	13.57
37 GATES	4	41.29	10	21.34	15.23
38 GRAHAM	1	14.03	3	8.40	34.42
39 GRANVILLE	14	36.63	38	20.57	16.39
40 GREENE	1	6.07	14	16.96	15.79
41 GUILFORD	60	17.98	240	14.65	14.60

* SEE SECTION I

MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
DIABETES MELLITUS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	16	28.27	63	22.50	16.88
43 HARNETT	6	9.23	50	15.83	17.02
44 HAYWOOD	4	8.32	23	9.63	6.08
45 HENDERSON	8	11.77	35	10.61	10.02
46 HERTFORD	5	20.95	25	20.94	15.38
47 HOKE	5	20.87	20	17.54	14.00
48 HYDE	3	51.75	6	20.30	16.68
49 IREDELL	10	11.12	71	16.24	15.50
50 JACKSON	6	22.35	19	14.13	19.92
51 JOHNSTON	5	6.31	45	11.76	11.86
52 JONES	4	39.64	8	16.22	11.68
53 LEE	7	16.91	24	11.93	11.93
54 LENOIR	18	29.83	46	15.21	12.40
55 LINCOLN	10	21.08	40	17.59	27.37
56 MCDOWELL	6	16.50	28	15.45	17.01
57 MACON	4	17.27	13	11.36	6.39
58 MADISON	3	17.26	21	24.40	48.98
59 MARTIN	5	18.64	32	24.01	18.42
60 MECKLENBURG	78	16.72	320	14.42	16.02
61 MITCHELL	5	34.30	20	27.69	16.73
62 MONTGOMERY	2	8.24	14	11.77	10.27
63 MOORE	8	13.90	36	13.07	10.86
64 NASH	12	16.58	63	17.79	16.56
65 NEW HANOVER	15	12.89	75	13.34	13.36
66 NORTHAMPTON	3	13.48	25	22.34	12.88
67 ONSLOW	8	6.36	32	5.23	12.14
68 ORANGE	10	11.59	43	10.38	13.48
69 PAMLICO	1	9.23	9	16.56	10.32
70 PASQUOTANK	7	22.97	27	18.32	13.59
71 PENDER	2	7.61	10	8.13	7.53
72 PERQUIMANS	1	9.32	2	3.90	1.67
73 PERSON	6	19.36	25	16.45	13.47
74 PITT	14	14.05	70	14.50	14.45
75 POLK	3	20.66	14	19.49	11.66
76 RANDOLPH	13	12.93	51	10.45	12.75
77 RICHMOND	10	21.77	48	20.95	18.28
78 ROBESON	34	31.71	130	24.55	26.70
79 ROCKINGHAM	14	16.29	59	13.82	13.21
80 ROWAN	17	16.23	102	19.78	18.04
81 RUTHERFORD	11	19.25	37	13.07	13.33
82 SAMPSON	8	15.79	43	17.08	14.18
83 SCOTLAND	13	37.83	36	21.32	18.84
84 STANLY	14	27.71	53	21.22	23.89
85 STOKES	1	2.76	17	9.62	11.36
86 SURRY	14	22.55	61	20.00	19.56
87 SWAIN	4	37.51	17	31.68	27.02
88 TRANSYLVANIA	2	7.70	16	12.59	20.88
89 TYRRELL	0	0.00	1	4.85	2.04
90 UNION	9	10.99	49	12.52	14.76
91 VANCE	13	33.22	47	24.55	19.41
92 WAKE	42	11.21	195	11.09	14.25
93 WARREN	4	24.15	14	17.07	8.09
94 WASHINGTON	4	27.28	12	16.51	12.86
95 WATAUGA	2	5.78	14	8.18	21.33
96 WAYNE	24	24.45	82	16.71	16.09
97 WILKES	8	13.06	33	10.88	12.21
98 WILSON	10	15.31	65	20.13	20.85
99 YADKIN	8	26.70	24	16.27	12.56
100 YANCEY	1	6.27	15	19.23	13.07

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

TABLE 20

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

PNEUMONIA AND INFLUENZA

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	1613	25.15	8002	25.61	25.61
REGIONS					
DHR I WESTERN	592	27.00	3006	28.10	25.72
DHR II N. CENTRAL	347	25.67	1789	27.09	25.53
DHR III S. CENTRAL	329	21.77	1522	20.82	24.77
DHR IV EASTERN	345	25.41	1685	25.38	26.45
HSA I WESTERN	326	30.04	1707	31.94	26.47
HSA II PIEDMONT	294	24.68	1524	26.15	25.04
HSA III S. PIEDMONT	266	24.02	1299	24.27	24.84
HSA IV CAPITAL	218	23.01	1068	23.61	25.77
HSA V CARDINAL	235	24.25	1002	21.16	24.59
HSA VI EASTERN	274	24.63	1402	25.65	26.80
COUNTIES					
1 ALAMANCE	13	12.38	97	18.91	16.54
2 ALEXANDER	9	33.21	35	26.29	32.07
3 ALLEGHANY	8	82.21	40	81.90	47.31
4 ANSON	14	53.41	68	51.92	42.80
5 ASHE	6	25.69	31	26.64	14.44
6 AVERY	4	26.39	25	33.36	27.98
7 BEAUFORT	13	30.40	72	33.60	28.23
8 BERTIE	8	37.85	36	33.83	24.61
9 BLADEN	10	32.48	49	31.89	32.61
10 BRUNSWICK	11	22.16	68	29.88	31.27
11 BUNCOMBE	50	29.15	348	41.43	29.76
12 BURKE	8	10.49	82	21.77	24.87
13 CABARRUS	30	32.01	155	33.66	30.64
14 CALDWELL	21	29.75	75	21.59	25.68
15 CAMDEN	2	33.42	12	40.87	41.63
16 CARTERET	14	27.73	55	22.69	22.14
17 CASWELL	6	26.72	24	21.64	22.83
18 CATAWBA	28	24.17	138	24.51	26.67
19 CHATHAM	18	49.54	49	27.65	23.81
20 CHEROKEE	8	38.29	27	26.70	14.41
21 CHOWAN	8	59.10	36	54.74	39.69
22 CLAY	0	0.00	13	36.70	19.30
23 CLEVELAND	24	27.81	101	23.66	21.97
24 COLUMBUS	26	49.19	87	33.38	31.65
25 CRAVEN	11	13.70	63	16.09	23.36
26 CUMBERLAND	33	12.80	130	10.20	20.83
27 CURRITUCK	1	7.30	18	27.51	26.90
28 DARE	5	25.01	21	23.96	24.82
29 DAVIDSON	26	21.07	148	24.93	25.83
30 DAVIE	7	25.54	30	21.82	23.56
31 DUPLIN	7	16.80	52	25.02	21.18
32 DURHAM	46	27.18	242	29.71	28.91
33 EDGECOMBE	12	20.29	99	33.94	28.12
34 FORSYTH	64	24.17	307	23.77	22.55
35 FRANKLIN	7	19.88	37	22.40	19.17
36 GASTON	42	24.32	205	24.07	26.02
37 GATES	2	20.64	15	32.01	25.55
38 GRAHAM	1	14.03	6	16.80	9.87
39 GRANVILLE	10	26.16	70	37.89	34.44
40 GREENE	4	24.29	13	15.75	14.45
41 GUILFORD	97	29.07	440	26.86	25.87

* SEE SECTION I

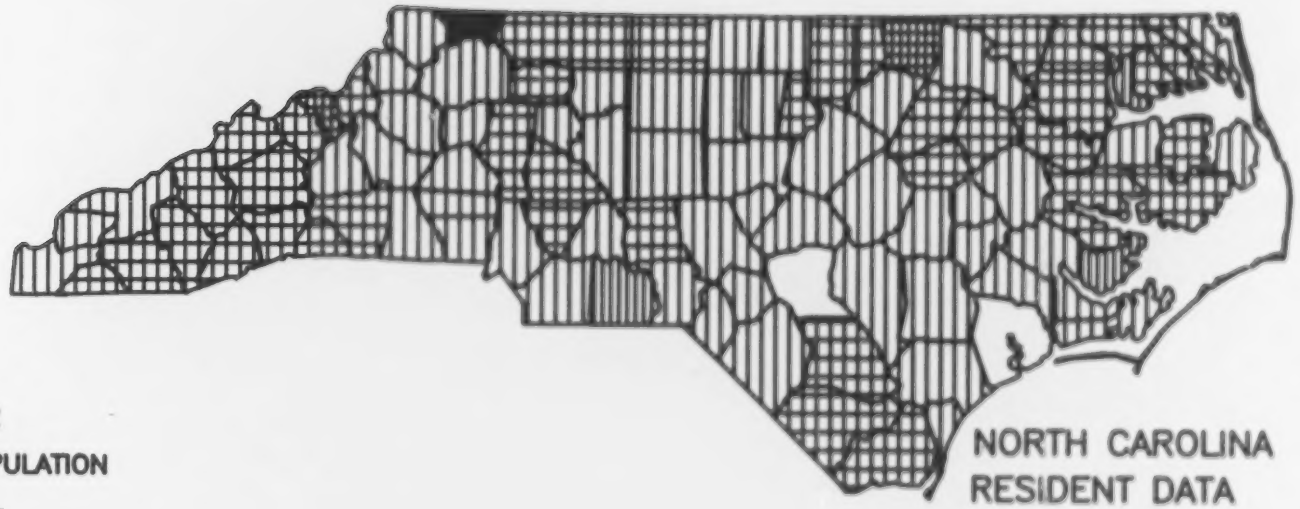
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
PNEUMONIA AND INFLUENZA CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	16	28.27	78	27.85	22.10
43 HARNETT	23	35.40	72	22.80	24.55
44 HAYWOOD	16	33.31	90	37.70	25.57
45 HENDERSON	27	39.72	137	41.56	21.98
46 HERTFORD	13	54.47	40	33.50	24.89
47 HOKE	2	8.34	28	24.56	36.07
48 HYDE	1	17.25	9	30.46	20.86
49 IREDELL	32	35.60	140	32.02	28.76
50 JACKSON	7	26.08	52	38.67	33.80
51 JOHNSTON	21	26.50	89	23.27	23.00
52 JONES	2	19.82	13	26.37	27.58
53 LEE	4	9.66	40	19.89	20.41
54 LENOIR	12	19.88	66	21.83	22.65
55 LINCOLN	10	21.08	52	22.87	22.94
56 MCDOWELL	11	30.26	45	24.83	22.74
57 MACON	9	38.87	41	35.84	39.43
58 MADISON	4	23.01	40	46.48	32.53
59 MARTIN	6	22.37	43	32.27	29.50
60 MECKLENBURG	85	18.22	420	18.93	21.76
61 MITCHELL	10	68.60	44	60.93	33.06
62 MONTGOMERY	5	20.62	38	31.96	26.88
63 MOORE	24	41.71	74	26.87	20.21
64 NASH	20	27.64	112	31.63	31.34
65 NEW HANOVER	30	25.78	103	18.32	19.73
66 NORTHAMPTON	15	67.42	39	34.85	33.59
67 ONSLOW	14	11.14	62	10.13	26.33
68 ORANGE	16	18.55	79	19.07	25.02
69 PAMLICO	3	27.70	28	51.53	38.72
70 PASQUOTANK	9	29.54	46	31.22	27.61
71 PENDER	4	15.22	25	20.32	17.16
72 PERQUIMANS	7	65.26	16	31.25	21.66
73 PERSON	10	32.27	38	25.01	22.06
74 PITT	24	24.09	122	25.27	29.69
75 POLK	5	34.44	26	36.21	24.03
76 RANDOLPH	19	18.90	93	19.07	22.17
77 RICHMOND	13	28.30	56	24.44	22.73
78 ROBESON	23	21.45	111	20.96	25.32
79 ROCKINGHAM	20	23.28	151	35.37	33.30
80 ROWAN	32	30.55	185	35.87	27.25
81 RUTHERFORD	33	57.76	117	41.35	32.46
82 SAMPSON	9	17.75	65	25.82	23.59
83 SCOTLAND	8	23.28	29	16.58	19.89
84 STANLY	14	27.71	57	22.82	19.09
85 STOKES	14	38.68	81	45.86	45.88
86 SURRY	15	24.16	90	29.51	21.81
87 SWAIN	3	28.13	15	27.95	16.63
88 TRANSYLVANIA	5	19.27	38	29.90	22.69
89 TYRRELL	1	24.13	7	33.97	25.23
90 UNION	21	25.65	85	21.73	25.74
91 VANCE	12	30.66	68	35.52	28.79
92 WAKE	60	16.01	304	17.29	24.15
93 WARREN	14	84.54	52	63.42	50.67
94 WASHINGTON	2	13.64	20	27.52	30.80
95 WATAUGA	10	28.90	33	19.30	20.70
96 WAYNE	24	24.45	107	21.80	25.71
97 WILKES	14	22.86	84	27.71	27.32
98 WILSON	18	27.56	102	31.59	34.42
99 YADKIN	13	43.40	63	42.73	32.81
100 YANCEY	5	31.37	24	30.77	17.91

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

INFLUENZA AND PNEUMONIA



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 81.90
- 60.93 to 63.43
- 51.54 to 54.75
- 29.52 to 46.49
- 15.76 to 27.96
- 10.13 to 10.20

FIGURE 20.A

INFLUENZA AND PNEUMONIA

NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 45.88 to 50.67
- 38.72 to 42.81
- 30.65 to 36.08
- 19.10 to 29.77
- 14.41 to 17.91
- 9.88

FIGURE 20.B

TABLE 21

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CHRONIC OBSTRUCTIVE PULMONARY DISEASES

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
NORTH CAROLINA	1794	27.97	8281	26.50	26.50
REGIONS					
DHR I WESTERN	666	30.37	2993	27.98	25.08
DHR II N. CENTRAL	395	29.23	1884	28.53	26.89
DHR III S. CENTRAL	347	22.97	1623	22.20	27.32
DHR IV EASTERN	386	28.43	1781	26.82	29.16
MSA I WESTERN	387	35.66	1732	32.41	26.20
MSA II PIEDMONT	348	29.21	1663	28.53	27.01
MSA III S. PIEDMONT	279	25.20	1261	23.56	23.72
MSA IV CAPITAL	199	21.01	992	21.93	25.59
MSA V CARDINAL	250	26.83	1168	24.66	28.85
MSA VI EASTERN	321	28.85	1465	26.80	29.71
COUNTIES					
1 ALAMANCE	45	42.88	165	32.16	26.84
2 ALEXANDER	5	18.45	25	18.78	20.29
3 ALLEGHANY	4	41.10	21	42.99	24.85
4 ANSON	2	7.63	16	12.21	12.61
5 ASHE	12	51.38	59	50.71	29.89
6 AVERY	5	32.99	30	40.03	47.70
7 BEAUFORT	22	51.45	81	37.80	34.43
8 BERTIE	7	33.12	25	23.49	26.73
9 BLADEN	8	25.98	32	20.82	21.73
10 BRUNSWICK	14	28.20	58	25.48	24.08
11 BUNCOMBE	79	45.48	321	38.22	28.90
12 BURKE	12	15.74	107	28.41	26.98
13 CABARRUS	27	28.81	138	29.97	25.94
14 CALDWELL	17	24.08	89	25.62	27.19
15 CAMDEN	3	50.13	6	20.43	18.49
16 CARTERET	18	35.65	79	32.60	25.70
17 CASWELL	4	17.81	30	27.05	27.91
18 CATAWBA	31	26.76	133	23.63	24.03
19 CHATHAM	3	8.25	35	19.75	17.27
20 CHEROKEE	7	33.51	36	35.60	27.80
21 CHOWAN	4	29.55	19	28.89	25.31
22 CLAY	5	69.49	20	56.46	30.47
23 CLEVELAND	24	27.81	114	26.71	24.56
24 COLUMBUS	13	24.59	70	26.86	26.56
25 CRAVEN	14	17.44	90	22.99	31.95
26 CUMBERLAND	47	18.23	216	16.95	35.34
27 CURRITUCK	5	36.52	14	21.40	22.21
28 DARE	3	15.00	18	20.53	18.05
29 DAVIDSON	32	25.93	162	27.28	27.13
30 DAVIE	5	18.24	31	22.55	20.65
31 DUPLIN	13	31.21	74	35.61	33.28
32 DURHAM	28	16.54	167	20.50	22.92
33 EDGECOMBE	13	21.98	80	27.42	31.32
34 FORSYTH	84	31.72	384	29.73	29.65
35 FRANKLIN	8	22.72	37	22.40	20.23
36 GASTON	52	30.11	218	25.60	24.52
37 GATES	3	30.97	15	32.01	23.82
38 GRAHAM	2	28.07	15	42.00	26.74
39 GRANVILLE	9	23.54	58	31.40	34.70
40 GREENE	2	12.14	22	26.66	30.80
41 GUILFORD	84	25.17	457	27.90	27.71

* SEE SECTION I

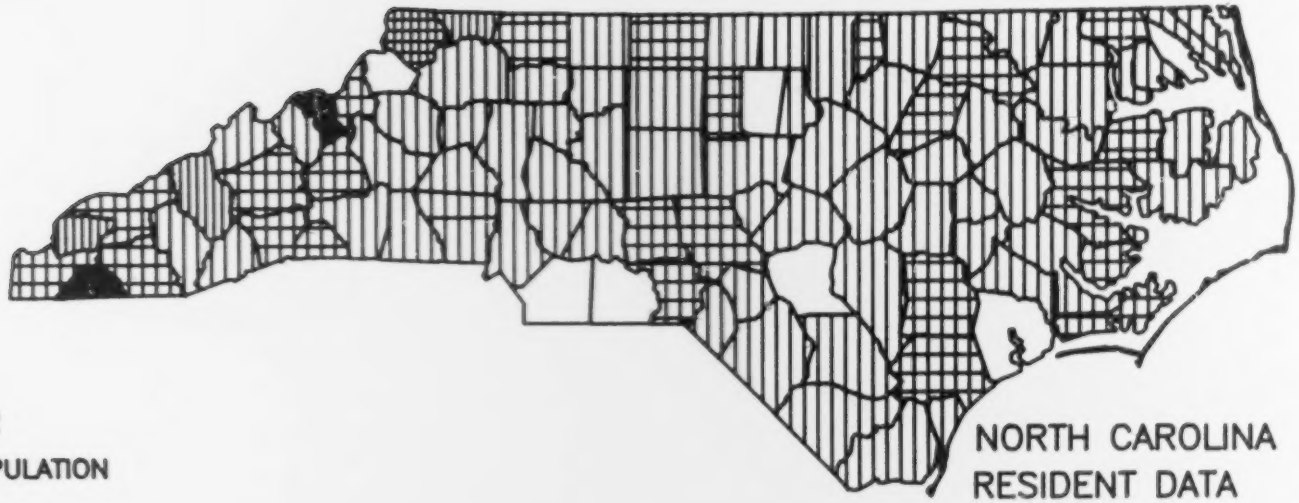
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CHRONIC OBSTRUCTIVE PULMONARY DISEASES CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	25	44.18	94	33.57	31.99
43 HARNETT	23	35.40	96	30.40	33.37
44 HAYWOOD	28	58.30	111	46.50	28.20
45 HENDERSON	34	50.02	133	40.35	27.86
46 HERTFORD	5	20.95	34	28.48	29.22
47 HOKE	3	12.52	25	21.93	39.23
48 HYDE	4	69.01	9	30.46	30.12
49 IREDELL	23	25.58	100	22.87	20.14
50 JACKSON	12	44.71	39	29.00	27.09
51 JOHNSTON	23	29.02	101	26.41	25.24
52 JONES	5	49.55	12	24.34	23.40
53 LEE	10	24.15	63	31.33	32.73
54 LENOIR	15	24.85	72	23.81	24.80
55 LINCOLN	12	25.29	46	20.23	20.80
56 MCDOWELL	9	24.75	68	37.53	31.55
57 MACON	10	43.19	44	38.46	18.36
58 MADISON	4	23.01	19	22.08	14.06
59 MARTIN	3	11.18	35	26.27	23.65
60 MECKLENBURG	109	23.37	512	23.07	27.38
61 MITCHELL	13	89.18	44	60.93	34.75
62 MONTGOMERY	9	37.11	42	35.33	31.20
63 MOORE	19	33.02	105	38.13	27.86
64 NASH	29	40.08	128	36.15	37.34
65 NEW HANOVER	30	25.78	146	25.97	27.76
66 NORTHAMPTON	5	22.47	25	22.34	21.11
67 ONSLOW	21	16.71	92	15.03	35.43
68 ORANGE	16	18.55	65	15.69	21.35
69 PAMLICO	4	36.93	18	33.13	25.63
70 PASQUOTANK	8	26.25	25	16.97	15.78
71 PENDER	8	30.44	42	34.14	32.97
72 PERQUIMANS	3	27.97	11	21.48	14.66
73 PERSON	11	35.49	42	27.64	25.08
74 PITT	32	32.12	142	29.42	38.77
75 POLK	6	41.32	28	38.99	27.04
76 RANDOLPH	20	19.90	95	19.48	17.08
77 RICHMOND	14	30.47	75	32.74	29.46
78 ROBESON	38	35.44	127	23.98	30.05
79 ROCKINGHAM	33	38.42	144	33.73	30.49
80 ROWAN	38	36.27	139	26.95	20.96
81 RUTHERFORD	19	33.25	88	31.10	23.09
82 SAMPSON	21	41.45	75	29.79	27.42
83 SCOTLAND	11	32.01	43	25.46	32.99
84 STANLY	7	13.85	56	22.42	17.27
85 STOKES	8	22.10	43	24.34	25.19
86 SURRY	29	46.71	113	37.06	32.19
87 SWAIN	2	18.75	19	35.41	28.98
88 TRANSYLVANIA	8	30.83	27	21.24	13.81
89 TYRRELL	2	48.26	5	24.26	22.69
90 UNION	11	13.44	52	13.29	14.82
91 VANCE	9	23.00	63	32.90	33.85
92 WAKE	72	19.22	340	19.34	27.55
93 WARREN	10	60.38	21	25.61	22.02
94 WASHINGTON	7	47.75	26	35.78	39.49
95 WATAUGA	12	34.68	29	16.96	22.48
96 WAYNE	25	25.47	123	25.06	31.58
97 WILKES	23	37.56	89	29.36	28.14
98 WILSON	21	32.15	91	28.18	32.33
99 YADKIN	4	13.35	39	26.45	20.09
100 YANCEY	5	31.37	24	30.77	18.31

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CHRONIC OBSTRUCTIVE PULMONARY DISEASE



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 56.46 to 60.93
- 50.71 to 50.71
- 42.00 to 46.50
- 32.01 to 40.35
- 18.78 to 31.40
- 12.22 to 16.97

FIGURE 21.A

CHRONIC OBSTRUCTIVE PULMONARY DISEASE

AGE-RACE-SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 47.70
- 37.34 to 39.50
- 31.20 to 35.44
- 26.57 to 30.81
- 20.09 to 25.95
- 12.61 to 18.49

NORTH CAROLINA
RESIDENT DATA
1983 – 1987

FIGURE 21.B

TABLE 22

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

CHRONIC LIVER DISEASE AND CIRRHOSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	678	10.57	3026	9.68	9.68
REGIONS					
DHR I WESTERN	229	10.44	1001	9.36	9.70
DHR II N. CENTRAL	157	11.61	555	9.92	9.49
DHR III S. CENTRAL	129	8.47	535	8.68	9.49
DHR IV EASTERN	164	12.08	735	11.07	11.23
HSA I WESTERN	109	10.04	506	9.47	10.43
HSA II PIEDMONT	137	11.50	583	10.00	9.76
HSA III S. PIEDMONT	120	10.83	495	9.25	9.39
HSA IV CAPITAL	77	8.13	365	8.07	8.45
HSA V CARDINAL	106	10.94	477	10.07	10.78
HSA VI EASTERN	129	11.59	600	10.97	11.28
COUNTIES					
1 ALAMANCE	10	9.52	47	9.16	7.83
2 ALEXANDER	0	0.00	6	4.50	4.55
3 ALLEGHANY	2	20.55	6	12.28	32.14
4 ANSON	0	0.00	14	10.69	11.17
5 ASHE	1	4.28	4	3.43	2.41
6 AVERY	5	32.99	11	14.67	24.89
7 BEAUFORT	4	9.35	34	15.86	15.37
8 BERTIE	1	4.73	8	7.51	7.55
9 BLADEN	2	6.49	7	4.55	4.70
10 BRUNSWICK	9	18.13	26	11.42	10.59
11 BUNCOMBE	16	9.33	92	10.95	10.70
12 BURKE	7	9.18	39	10.35	11.97
13 CABARRUS	10	10.67	38	8.25	8.17
14 CALDWELL	7	9.91	26	7.48	9.47
15 CAMDEN	0	0.00	2	6.81	6.69
16 CARTERET	5	9.90	29	11.96	10.16
17 CASWELL	3	13.36	11	9.92	10.80
18 CATAWBA	11	9.49	55	9.77	9.84
19 CHATHAM	2	5.50	11	6.20	5.59
20 CHEROKEE	1	4.78	17	16.81	15.08
21 CHOWAN	2	14.77	7	10.64	10.20
22 CLAY	3	41.69	6	16.93	12.44
23 CLEVELAND	15	17.38	53	12.42	12.35
24 COLUMBUS	4	7.56	20	7.67	6.91
25 CRAVEN	8	9.96	38	9.70	12.15
26 CUMBERLAND	28	10.86	117	9.18	13.13
27 CURRITUCK	2	14.61	6	9.17	7.86
28 DARE	2	10.00	10	11.41	9.69
29 DAVIDSON	15	12.15	45	7.58	7.25
30 DAVIE	1	3.64	8	5.82	5.52
31 DUPLIN	4	9.60	19	9.14	8.53
32 DURHAM	15	8.86	71	8.71	8.72
33 EDGECOMBE	11	18.60	45	15.42	13.99
34 FORSYTH	41	15.48	172	13.31	12.65
35 FRANKLIN	3	8.52	19	11.50	10.57
36 GASTON	26	15.05	111	13.03	13.53
37 GATES	1	10.32	6	12.80	14.69
38 GRAHAM	1	14.03	3	8.40	6.15
39 GRANVILLE	2	5.23	5	4.33	3.24
40 GREENE	2	12.14	9	9.69	8.91
41 GUILFORD	33	9.88	149	9.09	8.83

* SEE SECTION I

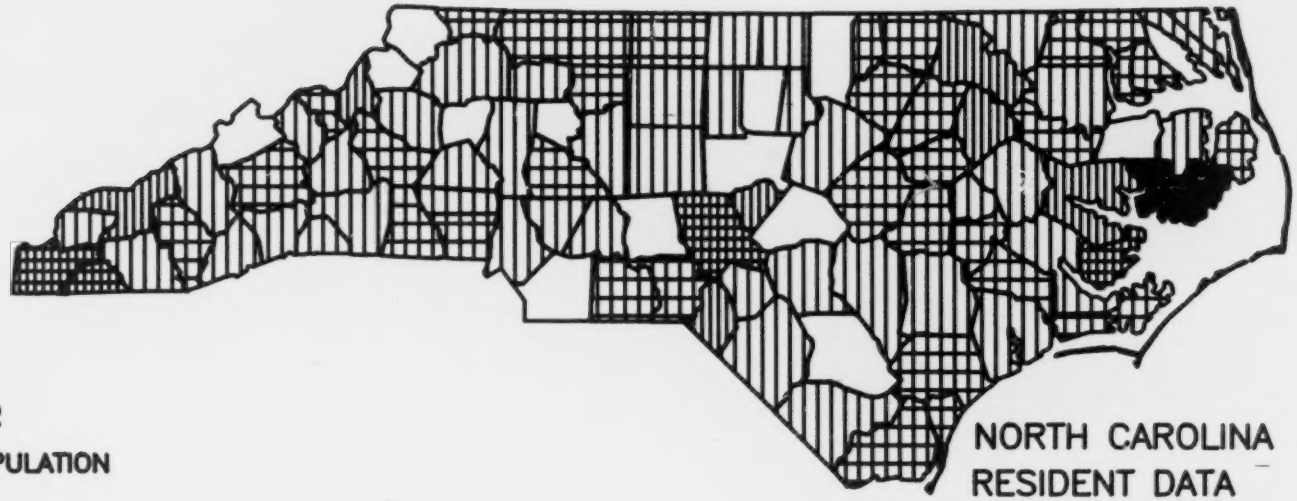
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
CHRONIC LIVER DISEASE AND CIRRHOSIS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	9	15.99	42	15.00	13.13
43 HARNETT	4	6.15	20	6.33	6.71
44 HAYWOOD	5	10.41	21	8.79	6.04
45 HENDERSON	6	8.82	31	9.40	7.16
46 HERTFORD	3	12.57	16	13.40	12.19
47 HOKE	2	8.34	10	8.77	12.08
48 HYDE	0	0.00	5	20.30	23.13
49 IREDELL	7	7.78	36	8.23	8.01
50 JACKSON	2	7.45	14	10.41	10.11
51 JOHNSTON	9	11.35	41	10.72	10.33
52 JONES	3	29.73	6	12.17	9.24
53 LEE	3	7.24	29	14.42	14.46
54 LENOIR	5	8.28	39	12.90	12.28
55 LINCOLN	6	12.64	18	7.91	8.14
56 MCDOWELL	6	16.50	13	7.17	5.64
57 MACON	3	12.95	8	6.99	3.43
58 MADISON	0	0.00	5	5.81	4.38
59 MARTIN	2	7.45	15	11.25	9.41
60 MECKLENBURG	36	7.71	193	8.69	8.80
61 MITCHELL	1	6.86	8	11.07	7.78
62 MONTGOMERY	3	12.37	7	5.88	5.31
63 MOORE	10	17.38	49	17.79	15.42
64 NASH	10	13.82	43	12.14	11.80
65 NEW HANOVER	21	18.05	73	12.98	13.27
66 NORTHAMPTON	1	4.49	11	9.83	6.10
67 ONSLOW	11	8.75	43	7.02	12.14
68 ORANGE	5	5.79	21	5.07	6.80
69 PAMLICO	0	0.00	9	16.56	13.35
70 PASQUOTANK	0	0.00	8	5.43	4.86
71 PENDER	1	3.80	16	13.00	11.47
72 PERQUIMANS	3	27.97	7	13.67	13.80
73 PERSON	3	9.68	12	7.89	7.28
74 PITT	13	13.05	39	8.08	9.37
75 POLK	0	0.00	5	6.96	13.81
76 RANDOLPH	9	8.95	36	7.38	8.65
77 RICHMOND	4	8.70	29	12.66	11.56
78 ROBESON	11	10.26	42	7.93	9.16
79 ROCKINGHAM	8	9.31	48	11.24	10.69
80 ROWAN	22	21.00	55	10.66	9.79
81 RUTHERFORD	7	12.25	28	9.89	10.63
82 SAMPSON	4	7.89	20	7.94	8.38
83 SCOTLAND	3	8.73	27	15.99	16.76
84 STANLY	5	9.89	20	8.00	8.07
85 STOKES	3	8.29	19	10.19	10.98
86 SURRY	10	16.10	35	11.47	13.11
87 SWAIN	2	18.75	8	14.91	14.48
88 TRANSYLVANIA	3	11.56	9	7.08	5.31
89 TYRRELL	0	0.00	2	9.70	5.69
90 UNION	8	9.77	24	6.13	7.00
91 VANCE	5	12.77	23	12.01	11.41
92 WAKE	23	6.14	120	6.82	8.14
93 WARREN	7	42.27	10	12.19	9.08
94 WASHINGTON	2	13.64	4	5.50	5.73
95 WATAUGA	2	5.78	10	5.84	16.06
96 WAYNE	16	16.30	54	11.00	11.04
97 WILKES	3	4.89	22	7.25	8.71
98 WILSON	9	13.78	44	13.62	12.84
99 YADKIN	4	13.35	14	9.49	12.90
100 YANCEY	0	0.00	6	7.69	5.65

* SEE SECTION I

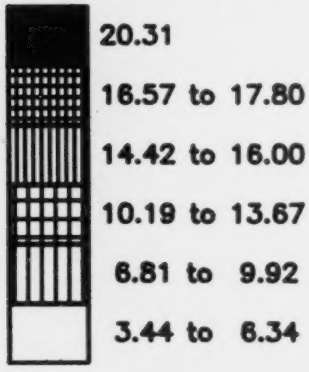
STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

CHRONIC LIVER DISEASE AND CIRRHOSIS



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

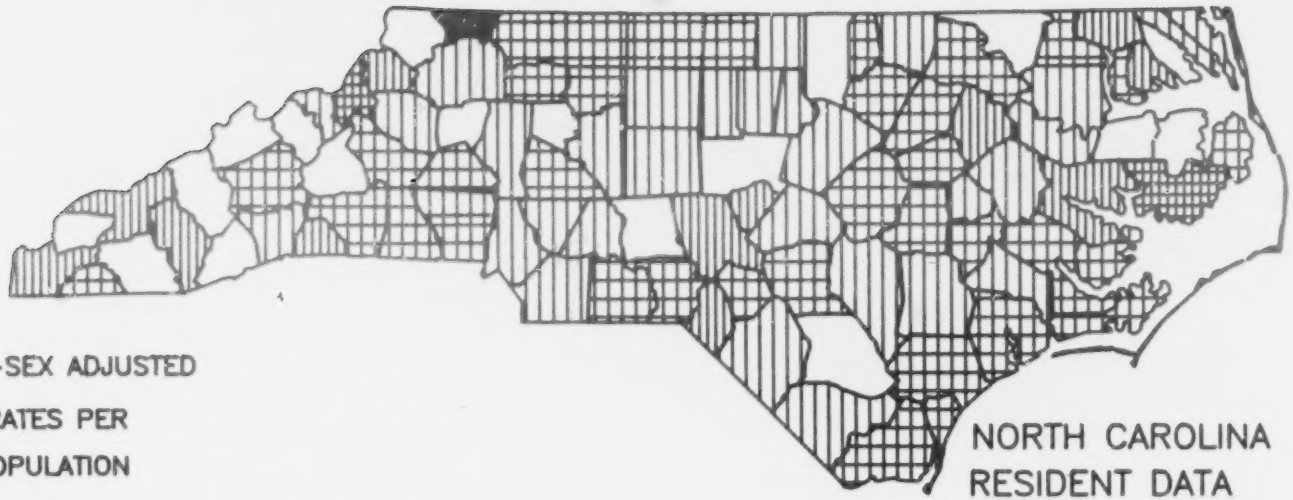
DEATHS PER
100,000 POPULATION



20.31
16.57 to 17.80
14.42 to 16.00
10.19 to 13.67
6.81 to 9.92
3.44 to 6.34

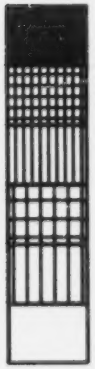
FIGURE 22.A

CHRONIC LIVER DISEASE AND CIRRHOSIS



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION



32.14
23.13 to 24.90
13.81 to 16.77
9.69 to 13.53
6.70 to 9.47
2.41 to 6.15

FIGURE 22.B

TABLE 23

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

NEPHRITIS, NEPHROTIC SYNDROME AND NEPHROSIS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
NORTH CAROLINA	468	7.29	2714	8.68	8.68
REGIONS					
DHR I WESTERN	127	5.79	873	8.16	8.45
DHR II N. CENTRAL	100	7.40	557	8.43	8.15
DHR III S. CENTRAL	127	8.40	620	8.48	9.22
DHR IV EASTERN	114	8.39	664	10.00	9.16
HSA I WESTERN	68	6.26	442	8.27	8.31
HSA II PIEDMONT	87	7.30	462	7.92	8.01
HSA III S. PIEDMONT	59	5.32	431	8.05	8.66
HSA IV CAPITAL	77	8.13	400	8.84	8.95
HSA V CARDINAL	82	8.46	435	9.18	9.50
HSA VI EASTERN	95	8.54	544	9.95	9.04
COUNTIES					
1 ALAMANCE	13	12.38	50	9.74	8.60
2 ALEXANDER	2	7.38	7	5.25	8.45
3 ALLEGHANY	1	10.27	5	10.23	6.01
4 ANSON	0	0.00	13	9.92	6.85
5 ASHE	1	4.28	14	12.03	6.88
6 AVERY	1	6.59	5	6.67	6.03
7 BEAUFORT	4	9.35	26	12.13	8.80
8 BERTIE	3	14.19	19	17.85	16.09
9 BLADEN	3	9.74	27	17.57	14.12
10 BRUNSWICK	1	2.01	12	5.27	5.28
11 BUNCOMBE	12	6.99	54	6.42	4.90
12 BURKE	3	3.93	24	6.37	7.41
13 CABARRUS	4	4.26	31	6.73	7.19
14 CALDWELL	4	5.66	24	6.90	9.08
15 CAMDEN	0	0.00	4	13.62	11.15
16 CARTERET	3	5.94	15	6.19	7.11
17 CASWELL	3	13.35	10	9.01	8.58
18 CATAWBA	8	6.90	46	8.17	10.33
19 CHATHAM	4	11.01	20	11.28	9.74
20 CHEROKEE	3	14.36	7	6.92	3.67
21 CHOWAN	0	0.00	7	10.64	6.67
22 CLAY	0	0.00	3	8.46	4.05
23 CLEVELAND	6	6.95	35	8.20	8.15
24 COLUMBUS	9	17.02	42	16.11	13.86
25 CRAVEN	2	2.49	33	8.43	10.34
26 CUMBERLAND	13	5.04	59	4.63	9.13
27 CURRITUCK	1	7.30	3	4.58	4.25
28 DARE	0	0.00	5	5.70	8.02
29 DAVIDSON	7	5.67	58	9.77	12.08
30 DAVIE	1	3.64	12	8.73	9.37
31 DUPLIN	8	19.21	33	15.88	11.81
32 DURHAM	16	9.45	89	10.92	9.97
33 EDGECOMBE	2	3.38	28	9.59	6.78
34 FORSYTH	25	9.44	104	8.05	7.76
35 FRANKLIN	2	5.68	16	9.68	6.27
36 GASTON	8	4.63	76	8.92	10.82
37 GATES	0	0.00	8	17.07	8.95
38 GRAHAM	0	0.00	3	8.40	5.60
39 GRANVILLE	2	5.23	26	14.07	9.95
40 GREENE	2	12.14	6	7.27	8.50
41 GUILFORD	23	6.89	111	6.77	6.85

* SEE SECTION I

MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
NEPHRITIS, NEPHROTIC SYNDROME AND NEPHROSIS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	12	21.20	43	15.35	10.04
43 HARNETT	6	9.23	31	9.81	10.52
44 HAYWOOD	0	0.00	20	8.37	5.04
45 HENDERSON	3	4.41	34	10.31	6.74
46 HERTFORD	4	16.76	16	13.40	8.66
47 HOKE	4	16.69	9	7.89	6.58
48 HYDE	0	0.00	4	13.53	10.49
49 IREDELL	3	3.33	43	9.83	10.31
50 JACKSON	2	7.45	16	11.90	17.00
51 JOHNSTON	8	10.09	33	8.63	8.78
52 JONES	1	9.91	5	10.14	10.03
53 LEE	4	9.66	34	16.90	16.99
54 LENOIR	7	11.60	41	13.56	11.20
55 LINCOLN	5	10.54	18	7.91	10.76
56 MCDOWELL	3	8.25	18	9.93	8.71
57 MACON	2	8.63	11	9.61	4.69
58 MADISON	3	17.26	7	8.13	4.60
59 MARTIN	5	18.64	18	13.51	8.44
60 MECKLENBURG	28	5.57	164	7.39	8.42
61 MITCHELL	2	13.72	7	9.69	5.52
62 MONTGOMERY	1	4.12	17	14.30	12.37
63 MOORE	5	8.69	29	10.53	7.95
64 NASH	8	11.05	29	8.19	7.33
65 NEW HANOVER	7	6.01	56	9.96	10.31
66 NORTHAMPTON	4	17.97	21	18.76	15.81
67 ONSLOW	2	1.59	31	5.06	11.33
68 ORANGE	4	4.63	21	5.07	6.14
69 PAMLICO	0	0.00	3	5.52	5.06
70 PASQUOTANK	0	0.00	17	11.53	9.30
71 PENDER	2	7.61	10	8.13	6.25
72 PERQUIMANS	3	27.97	11	21.48	10.88
73 PERSON	3	9.69	11	7.24	6.54
74 PITT	9	9.03	38	7.87	7.11
75 POLK	0	0.00	8	11.14	8.16
76 RANDOLPH	5	4.97	37	7.58	11.18
77 RICHMOND	6	13.06	34	14.84	13.04
78 ROBESON	12	11.19	58	10.95	8.88
79 ROCKINGHAM	5	5.82	33	7.73	7.35
80 ROWAN	6	5.72	46	8.92	7.34
81 RUTHERFORD	4	7.00	30	10.60	9.69
82 SAMPSON	5	9.86	22	8.73	7.34
83 SCOTLAND	8	23.28	16	9.47	12.22
84 STANLY	5	9.89	23	9.21	9.01
85 STOKES	0	0.00	8	4.52	5.38
86 SURRY	4	6.44	25	8.19	6.67
87 SWAIN	2	18.75	11	20.50	14.94
88 TRANSYLVANIA	2	7.70	9	7.08	11.70
89 TYRRELL	0	0.00	1	4.85	7.89
90 UNION	2	2.44	30	7.67	9.13
91 VANCE	4	10.22	21	10.96	8.94
92 WAKE	28	7.47	108	6.14	8.27
93 WARREN	2	12.07	21	25.61	13.69
94 WASHINGTON	4	27.28	11	15.13	12.39
95 WATAUGA	1	2.89	9	5.26	9.70
96 WAYNE	9	9.16	42	8.56	8.20
97 WILKES	3	4.89	33	10.88	11.30
98 WILSON	2	3.06	26	8.05	7.69
99 YADKIN	1	3.33	14	9.49	8.72
100 YANCEY	0	0.00	2	2.56	1.73

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

NEPHRITIS, NEPHROTIC SYNDROME, NEPHROSIS

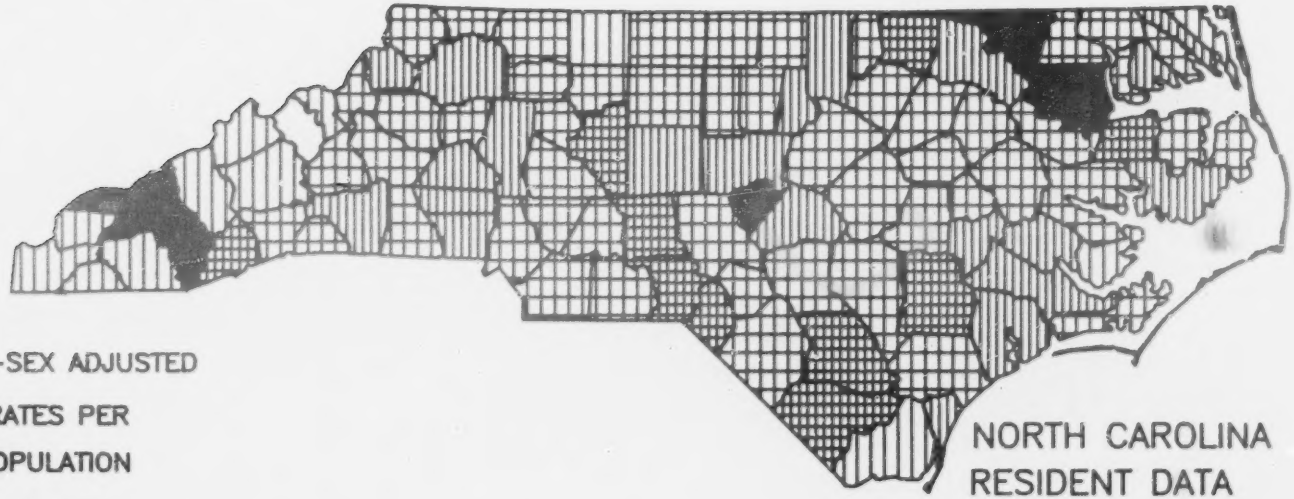
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 25.61
- 20.50 to 21.49
- 16.91 to 18.77
- 13.40 to 16.12
- 6.14 to 12.13
- 2.56 to 5.71

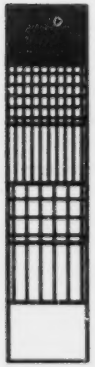
FIGURE 23.A

NEPHRITIS, NEPHROTIC SYNDROME, NEPHROSIS



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION



14.95 to 17.01
11.70 to 14.12
9.69 to 11.34
6.02 to 9.37
3.67 to 5.61
1.73

FIGURE 23.B

TABLE 24

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

MOTOR VEHICLE ACCIDENTS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	1575	24.56	7554	24.17	24.17
REGIONS					
DHR I WESTERN	486	22.16	2361	22.07	22.26
DHR II N. CENTRAL	315	23.31	1519	23.00	23.39
DHR III S. CENTRAL	380	25.15	1891	25.87	25.12
DHR IV EASTERN	394	29.02	1783	26.85	26.28
HSA I WESTERN	240	22.11	1223	22.89	23.04
HSA II PIEDMONT	272	22.83	1288	22.10	22.42
HSA III S. PIEDMONT	246	22.21	1138	21.26	21.70
HSA IV CAPITAL	197	20.80	1015	22.44	21.99
HSA V CARDINAL	305	31.58	1455	30.73	30.27
HSA VI EASTERN	314	28.22	1435	26.25	25.40
COUNTIES					
1 ALAMANCE	23	21.91	95	18.52	18.82
2 ALEXANDER	8	29.52	41	30.80	30.32
3 ALLEGHANY	1	10.27	10	20.47	16.36
4 ANSON	5	19.07	33	25.19	22.51
5 ASHE	3	12.84	17	14.61	12.04
6 AVERY	1	6.59	12	16.01	12.61
7 BEAUFORT	12	28.06	52	24.26	26.15
8 BERTIE	13	61.51	49	46.04	49.59
9 BLADEN	14	45.47	49	31.89	29.61
10 BRUNSWICK	18	36.26	82	36.03	37.47
11 BUNCOMBE	34	19.82	157	18.69	18.81
12 BURKE	17	22.30	78	20.71	20.03
13 CABARRUS	24	25.60	112	24.32	24.95
14 CALDWELL	12	17.00	75	21.59	22.39
15 CAMDEN	1	16.71	9	30.65	31.62
16 CARTERET	23	45.55	58	23.93	27.02
17 CASWELL	9	40.08	44	39.68	35.26
18 CATAWBA	24	20.72	153	27.18	27.97
19 CHATHAM	16	44.04	61	34.42	33.87
20 CHEROKEE	5	23.93	21	20.76	27.86
21 CHOWAN	6	44.32	21	31.93	34.92
22 CLAY	2	27.79	10	28.23	22.73
23 CLEVELAND	12	13.90	99	23.20	23.66
24 COLUMBUS	23	43.51	111	42.59	43.23
25 CRAVEN	11	13.70	84	21.46	20.73
26 CUMBERLAND	72	27.92	350	27.47	26.77
27 CURRITUCK	6	43.83	20	30.57	31.70
28 DARE	3	15.00	22	25.10	26.75
29 DAVIDSON	40	32.41	169	28.46	28.87
30 DAVIE	10	36.48	37	26.91	27.98
31 DUPLIN	12	28.81	69	33.21	35.93
32 DURHAM	26	15.36	127	15.59	14.59
33 EDGECOMBE	17	28.75	69	23.65	24.73
34 FORSYTH	56	21.14	204	15.79	16.21
35 FRANKLIN	10	28.40	51	30.88	31.25
36 GASTON	28	16.21	184	21.61	22.93
37 GATES	5	51.62	22	46.95	45.47
38 GRAHAM	0	0.00	7	19.60	46.88
39 GRANVILLE	13	34.01	59	31.94	34.54
40 GREENE	4	24.29	28	33.93	27.36
41 GUILFORD	58	17.38	325	19.84	20.34

* SEE SECTION I

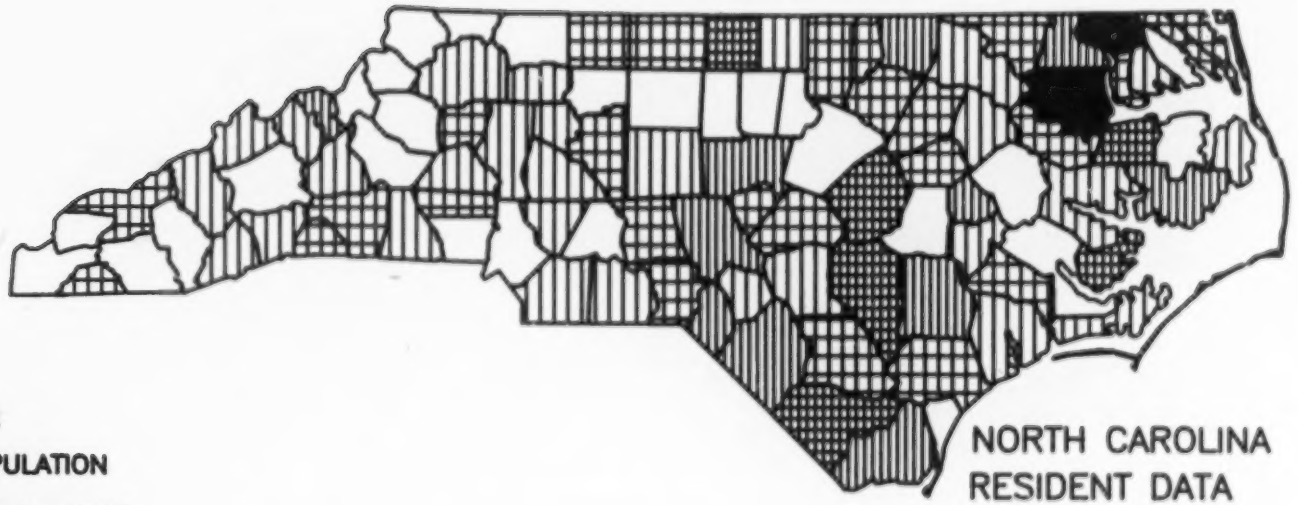
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
MOTOR VEHICLE ACCIDENTS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	12	21.20	67	23.93	21.63
43 HARNETT	15	23.08	98	31.04	31.13
44 HAYWOOD	11	22.90	55	23.04	25.01
45 HENDERSON	17	25.01	79	23.96	22.82
46 HERTFORD	11	46.09	41	34.34	23.33
47 HOKE	9	37.57	27	23.68	20.28
48 HYDE	3	51.75	10	33.84	33.32
49 IREDELL	28	31.15	118	26.99	27.69
50 JACKSON	6	22.35	20	14.87	16.23
51 JOHNSTON	31	39.12	147	38.44	39.63
52 JONES	7	69.37	16	32.45	30.42
53 LEE	9	21.74	63	31.33	31.90
54 LENOIR	18	29.83	82	27.12	30.73
55 LINCOLN	13	27.40	72	31.67	35.60
56 MCDOWELL	7	19.25	44	24.28	21.29
57 MACON	2	8.63	19	16.60	14.03
58 MADISON	6	34.52	22	25.56	19.84
59 MARTIN	8	29.83	41	30.77	30.04
60 MECKLENBURG	90	19.29	372	16.76	17.14
61 MITCHELL	6	41.16	26	36.00	26.63
62 MONTGOMERY	8	32.99	36	30.28	31.77
63 MOORE	19	33.02	95	34.50	35.91
64 NASH	21	29.02	103	29.09	29.75
65 NEW HANOVER	28	24.06	115	20.46	20.52
66 NORTHAMPTON	4	17.97	32	28.59	21.99
67 ONSLOW	34	27.06	155	25.33	24.50
68 ORANGE	14	16.23	82	19.79	19.65
69 PAMLICO	4	36.93	22	40.49	47.14
70 PASQUOTANK	12	39.38	28	19.00	18.84
71 PENDER	11	41.86	40	32.52	32.78
72 PERQUIMANS	2	18.64	12	23.43	24.17
73 PERSON	5	16.13	34	22.37	22.81
74 PITT	22	22.08	90	18.64	17.98
75 POLK	5	34.44	22	30.64	29.80
76 RANDOLPH	22	21.89	134	27.48	28.97
77 RICHMOND	13	28.30	68	29.68	30.77
78 ROBESON	39	36.37	196	37.02	30.32
79 ROCKINGHAM	21	24.44	132	30.92	31.41
80 ROWAN	27	25.77	134	25.98	26.17
81 RUTHERFORD	17	29.75	86	30.39	31.45
82 SAMPSON	21	41.45	96	38.13	40.17
83 SCOTLAND	11	32.01	59	34.94	39.14
84 STANLY	12	23.75	46	18.42	18.35
85 STOKES	10	27.63	55	31.13	37.72
86 SURRY	16	25.77	59	19.35	17.81
87 SWAIN	5	46.89	16	29.82	31.99
88 TRANSYLVANIA	8	30.83	31	24.39	22.79
89 TYRRELL	1	24.13	4	19.41	25.49
90 UNION	24	29.32	100	25.56	27.65
91 VANCE	7	17.89	57	29.77	33.47
92 WAKE	58	15.48	304	17.29	17.21
93 WARREN	8	48.30	30	36.59	40.87
94 WASHINGTON	5	34.11	28	38.53	45.67
95 WATAUGA	7	20.23	29	16.96	12.59
96 WAYNE	21	21.39	100	20.38	20.71
97 WILKES	18	29.39	75	24.74	27.55
98 WILSON	16	24.50	101	31.28	31.32
99 YADKIN	7	23.36	34	23.06	22.96
100 YANCEY	6	37.65	19	24.36	28.52

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

MOTOR VEHICLE ACCIDENTS



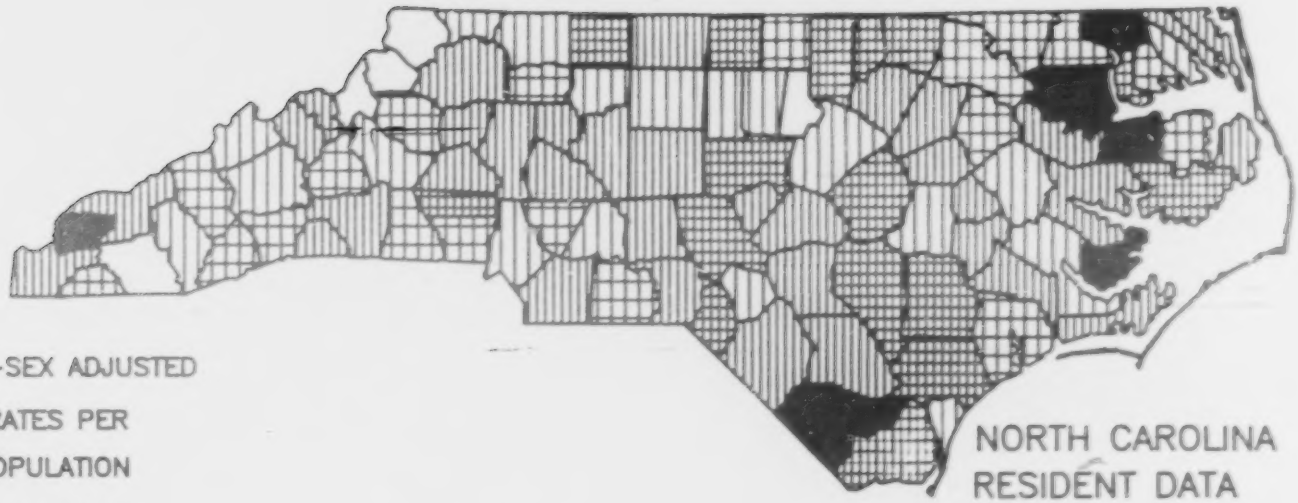
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

- 46.05 to 46.96
- 38.14 to 42.60
- 33.21 to 37.02
- 28.23 to 32.52
- 22.38 to 27.48
- 14.61 to 21.61

FIGURE 24.A

MOTOR VEHICLE ACCIDENTS



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 43.23 to 49.60
- 32.79 to 40.88
- 26.15 to 32.00
- 21.30 to 25.50
- 16.21 to 20.73
- 12.04 to 14.60

FIGURE 24.B

TABLE 25

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

ALL OTHER ACCIDENTS AND ADVERSE EFFECTS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	1518	23.67	7321	23.43	23.43
REGIONS					
DHR I WESTERN	534	24.35	2423	22.65	22.83
DHR II N. CENTRAL	335	24.79	1473	22.31	21.97
DHR III S. CENTRAL	333	22.04	1695	23.19	23.87
DHR IV EASTERN	316	23.27	1730	26.06	24.86
HSA I WESTERN	293	26.99	1272	23.80	23.20
HSA II PIEDMONT	286	24.00	1237	21.22	21.32
HSA III S. PIEDMONT	241	21.78	1151	21.50	22.28
HSA IV CAPITAL	205	21.64	1006	22.24	22.53
HSA V CARDINAL	227	23.43	1225	25.87	25.78
HSA VI EASTERN	266	23.91	1430	26.16	24.74
COUNTIES					
1 ALAMANCE	21	20.01	108	21.05	20.65
2 ALEXANDER	8	29.52	27	20.28	20.80
3 ALLEGHANY	0	0.00	12	24.57	17.32
4 ANSON	7	26.70	48	36.65	32.62
5 ASHE	5	21.41	24	20.62	13.14
6 AVERY	5	32.99	18	24.01	79.22
7 BEAUFORT	11	25.72	67	31.26	29.19
8 BERTIE	4	18.92	37	34.77	19.62
9 BLADEN	15	48.72	48	31.24	28.19
10 BRUNSWICK	11	22.16	53	23.29	23.36
11 BUNCOMBE	50	29.15	233	27.74	24.83
12 BURKE	22	28.86	81	21.51	25.69
13 CABARRUS	21	22.40	99	21.50	22.48
14 CALDWELL	17	24.08	63	18.13	18.10
15 CAMDEN	4	66.84	10	34.06	29.65
16 CARTERET	10	19.80	55	22.69	24.86
17 CASWELL	7	31.17	31	27.95	25.76
18 CATAWBA	28	24.17	112	19.89	21.07
19 CHATHAM	6	16.51	57	32.17	29.31
20 CHEROKEE	2	9.57	17	16.81	11.99
21 CHOWAN	1	7.38	17	25.85	21.39
22 CLAY	1	13.89	8	22.58	14.73
23 CLEVELAND	26	30.13	106	24.84	24.69
24 COLUMBUS	13	24.59	86	33.00	31.05
25 CRAVEN	13	16.19	71	18.13	18.69
26 CUMBERLAND	57	22.10	284	22.29	27.87
27 CURRITUCK	2	14.61	10	15.28	13.55
28 DARE	5	25.01	31	35.37	32.93
29 DAVIDSON	30	24.31	120	20.21	21.07
30 DAVIE	9	32.84	26	18.91	19.23
31 DUPLIN	10	24.01	60	28.88	24.61
32 DURHAM	40	23.63	201	24.67	22.94
33 EDGECOMBE	14	23.67	85	29.14	26.89
34 FORSYTH	75	28.32	281	21.75	21.37
35 FRANKLIN	11	31.24	52	31.48	24.22
36 GASTON	33	19.11	187	21.96	22.91
37 GATES	2	20.64	13	27.74	23.08
38 GRAHAM	4	56.14	15	42.00	48.97
39 GRANVILLE	13	34.01	51	27.61	25.64
40 GREENE	4	24.29	29	35.14	36.14
41 GUILFORD	73	21.87	336	20.51	20.09

* SEE SECTION I

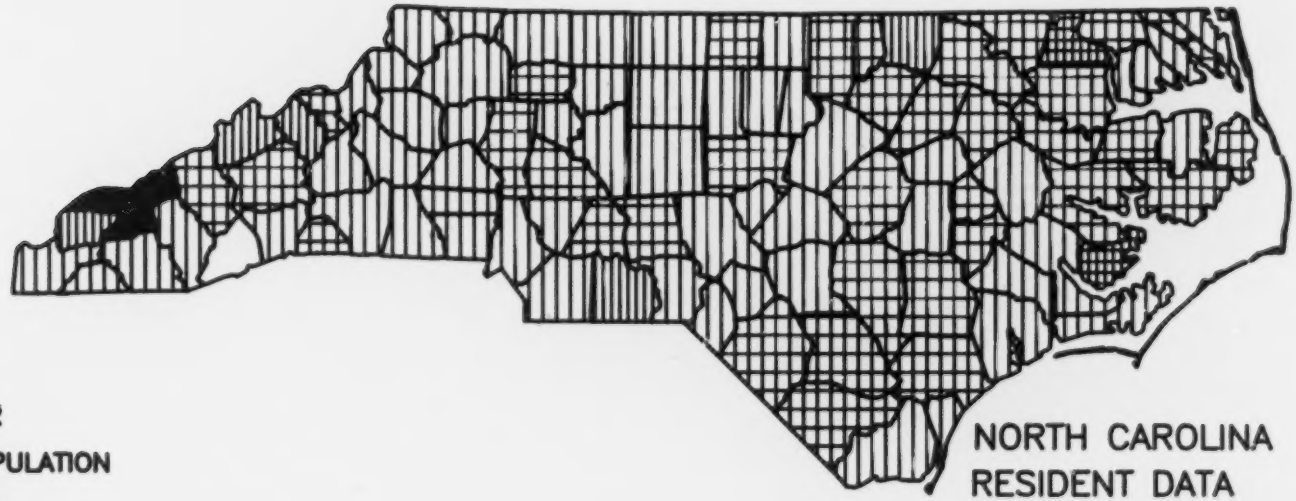
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
ALL OTHER ACCIDENTS AND ADVERSE EFFECTS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	18	31.80	91	32.50	24.23
43 HARNETT	9	13.85	71	22.48	23.46
44 HAYWOOD	22	45.81	67	28.07	18.53
45 HENDERSON	18	26.48	73	22.14	22.66
46 HERTFORD	6	25.14	55	46.07	37.34
47 HOKE	7	29.22	22	19.29	20.77
48 HYDE	1	17.25	10	33.84	26.89
49 IREDELL	26	28.92	122	27.90	28.32
50 JACKSON	4	14.90	30	22.31	23.06
51 JOHNSTON	19	23.97	112	29.29	30.13
52 JONES	1	9.91	12	24.34	20.95
53 LEE	15	36.23	51	25.36	25.14
54 LENOIR	20	33.14	82	27.12	22.17
55 LINCOLN	8	16.86	51	22.43	22.73
56 MCDOWELL	9	24.75	45	24.83	23.75
57 MACON	5	21.59	28	24.47	15.12
58 MADISON	8	46.03	33	38.35	26.40
59 MARTIN	6	22.37	39	29.27	28.29
60 MECKLENBURG	91	19.51	403	18.16	18.87
61 MITCHELL	5	34.30	23	31.85	20.43
62 MONTGOMERY	6	24.74	36	30.28	27.43
63 MOORE	12	20.85	65	23.60	22.01
64 NASH	24	33.17	112	31.63	29.09
65 NEW HANOVER	19	16.33	121	21.53	22.66
66 NORTHAMPTON	3	13.48	34	30.38	19.57
67 ONSLOW	19	15.12	117	19.12	23.45
68 ORANGE	10	11.59	58	14.00	15.68
69 PAMLICO	6	55.40	25	46.01	39.50
70 PASQUOTANK	5	16.41	34	23.07	21.22
71 PENDER	7	26.63	40	32.52	29.53
72 PERQUIMANS	3	27.97	13	25.39	27.46
73 PERSON	8	25.81	32	21.06	19.04
74 PITT	28	28.11	112	23.20	24.59
75 POLK	5	34.44	20	27.85	19.34
76 RANDOLPH	23	22.88	87	17.84	18.66
77 RICHMOND	10	21.77	59	25.75	25.26
78 ROBESON	36	33.57	177	33.43	28.95
79 ROCKINGHAM	21	24.44	103	24.13	23.63
80 ROWAN	34	32.46	156	30.25	27.93
81 RUTHERFORD	16	28.00	66	23.32	23.21
82 SAMPSON	16	31.58	82	32.57	29.36
83 SCOTLAND	2	5.82	33	19.54	18.69
84 STANLY	11	21.77	66	26.43	24.79
85 STOKES	6	16.57	35	19.81	24.97
86 SURRY	14	22.55	67	21.97	22.09
87 SWAIN	6	56.27	28	52.18	50.38
88 TRANSYLVANIA	2	7.70	14	11.01	7.51
89 TYRRELL	0	0.00	5	24.26	23.47
90 UNION	17	20.77	67	17.12	19.53
91 VANCE	10	25.55	68	35.52	30.43
92 WAKE	66	17.61	291	16.55	19.52
93 WARREN	7	42.27	33	40.25	33.20
94 WASHINGTON	2	13.64	22	30.27	31.09
95 WATAUGA	6	17.34	33	19.30	15.23
96 WAYNE	25	25.47	105	21.40	20.29
97 WILKES	14	22.86	67	22.10	20.67
98 WILSON	19	29.09	77	23.84	22.46
99 YADKIN	7	23.36	43	29.16	33.17
100 YANCEY	5	31.37	29	37.18	47.11

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

ALL OTHER ACCIDENTS AND ADVERSE EFFECTS

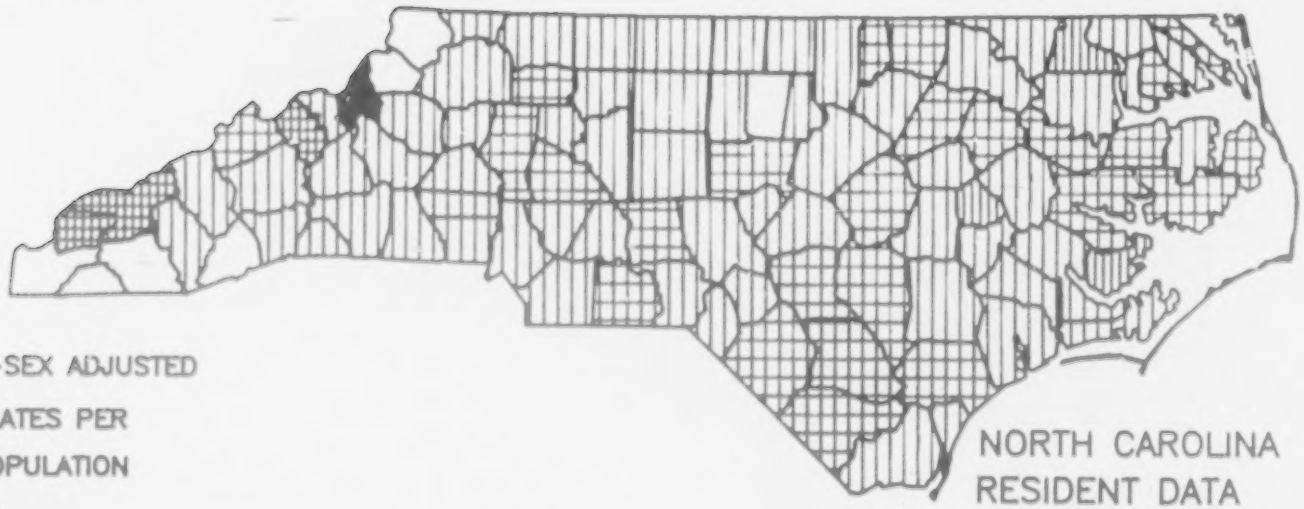


DEATHS PER
100,000 POPULATION

- 52.19
- 46.02 to 46.07
- 36.65 to 42.00
- 26.43 to 35.52
- 14.00 to 25.85
- 11.02

FIGURE 25.A

ALL OTHER ACCIDENTS AND ADVERSE EFFECTS



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 79.23
- 47.12 to 50.38
- 36.15 to 39.50
- 26.41 to 33.21
- 17.32 to 25.77
- 7.52 to 15.69

FIGURE 25.B

TABLE 26

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

SUICIDE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	787	12.27	3916	12.53	12.53
REGIONS					
DHR I WESTERN	279	12.72	1404	13.12	12.23
DHR II N. CENTRAL	190	14.06	895	13.55	13.28
DHR III S. CENTRAL	158	10.45	831	11.37	12.38
DHR IV EASTERN	160	11.78	785	11.84	12.96
HSA I WESTERN	146	13.45	759	14.20	12.90
HSA II PIEDMONT	173	14.52	797	13.67	13.17
HSA III S. PIEDMONT	133	12.01	645	12.05	11.78
HSA IV CAPITAL	97	10.24	521	11.52	12.05
HSA V CARDINAL	107	11.04	554	11.70	13.07
HSA VI EASTERN	131	11.77	640	11.71	13.12
COUNTIES					
1 ALAMANCE	12	11.43	72	14.03	13.40
2 ALEXANDER	4	14.76	24	18.03	19.62
3 ALLEGHANY	2	20.55	11	22.52	16.81
4 ANSON	1	3.81	21	16.03	22.55
5 ASHE	4	17.12	20	17.19	13.03
6 AVERY	1	6.59	6	8.00	6.46
7 BEAUFORT	6	14.03	27	12.60	13.70
8 BERTIE	3	14.19	14	13.15	11.88
9 BLADEN	3	9.74	15	9.76	10.96
10 BRUNSWICK	7	14.10	28	12.30	11.91
11 BUNCOMBE	21	12.24	146	17.38	15.77
12 BURKE	11	14.43	56	14.87	14.00
13 CABARRUS	10	10.67	64	13.90	13.11
14 CALDWELL	9	12.75	48	13.81	13.46
15 CAMDEN	1	16.71	4	13.62	15.01
16 CARTERET	10	19.80	26	10.73	8.51
17 CASWELL	4	17.81	12	10.82	12.29
18 CATAWBA	11	9.49	69	12.25	11.02
19 CHATHAM	4	11.01	20	11.28	11.10
20 CHEROKEE	2	9.57	15	14.83	10.32
21 CHOWAN	2	14.77	7	10.64	11.38
22 CLAY	1	13.89	4	11.29	7.43
23 CLEVELAND	10	11.58	46	10.77	10.74
24 COLUMBUS	4	7.56	36	13.81	14.67
25 CRAVEN	13	16.19	51	13.02	15.06
26 CUMBERLAND	31	12.02	136	10.67	12.86
27 CURRITUCK	5	36.52	13	19.87	18.21
28 DARE	7	35.01	18	20.53	15.52
29 DAVIDSON	20	16.20	79	13.13	11.96
30 DAVIE	3	10.94	22	16.00	15.40
31 DUPLIN	4	9.60	20	9.62	10.52
32 DURHAM	15	8.86	90	11.04	12.68
33 EDGECOMBE	8	13.53	35	11.99	16.15
34 FORSYTH	38	14.35	166	12.85	12.79
35 FRANKLIN	4	11.36	15	9.08	10.54
36 GASTON	19	11.00	88	10.33	9.56
37 GATES	0	0.00	3	6.40	9.37
38 GRAHAM	0	0.00	3	8.40	6.88
39 GRANVILLE	5	13.08	32	17.32	17.15
40 GREENE	1	6.07	10	12.11	15.09
41 GUILFORD	47	14.08	210	12.82	13.04

* SEE SECTION I

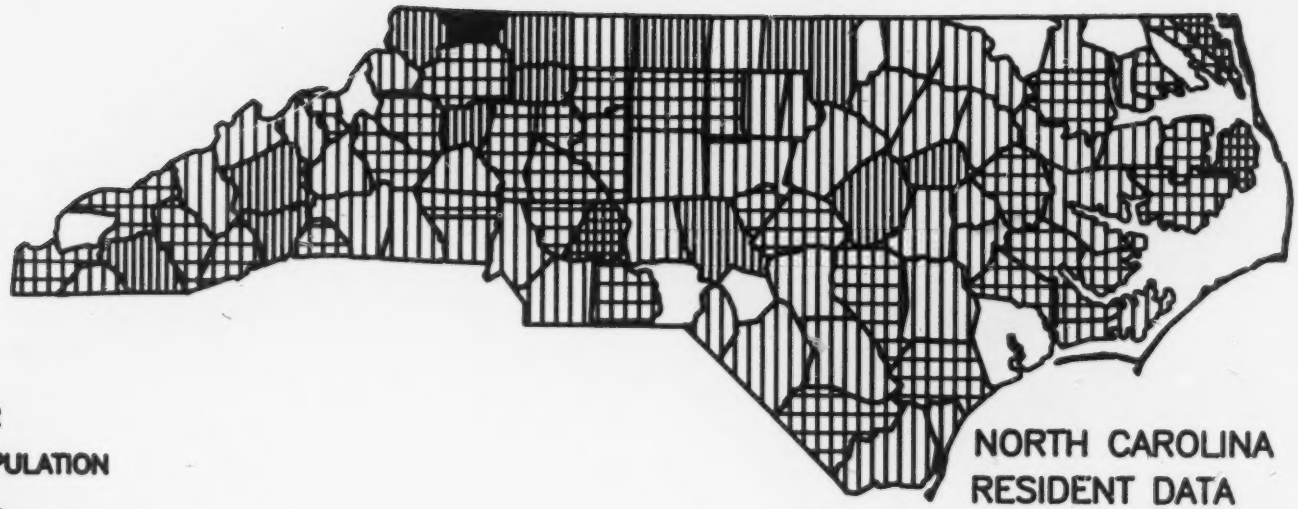
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
SUICIDE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE* 1983-87
42 HALIFAX	3	5.30	27	9.64	11.75
43 HARNETT	3	4.61	43	13.62	14.30
44 HAYWOOD	9	18.74	27	11.31	8.48
45 HENDERSON	10	14.71	58	17.59	14.80
46 HERTFORD	1	4.19	12	10.05	8.76
47 HOKE	2	8.34	9	7.89	8.43
48 HYDE	1	17.25	4	13.53	15.72
49 IREDELL	14	15.57	58	13.26	12.71
50 JACKSON	3	11.17	18	13.38	13.64
51 JOHNSTON	14	17.66	63	16.47	15.80
52 JONES	0	0.00	7	14.19	14.75
53 LEE	4	9.66	28	13.92	14.14
54 LENOIR	3	4.97	36	11.90	14.47
55 LINCOLN	13	27.47	35	15.39	16.37
56 MCDOWELL	3	8.25	21	11.59	14.74
57 MACON	8	34.55	21	18.35	12.73
58 MADISON	2	11.50	10	11.62	8.85
59 MARTIN	5	18.64	15	11.25	13.97
60 MECKLENBURG	47	10.07	230	10.36	10.70
61 MITCHELL	3	20.58	11	15.23	10.10
62 MONTGOMERY	3	12.37	14	11.77	11.39
63 MOORE	9	15.64	46	16.70	14.63
64 NASH	9	12.44	42	11.86	13.64
65 NEW HANOVER	15	12.89	63	11.21	11.04
66 NORTHAMPTON	2	8.98	9	8.04	10.64
67 ONSLOW	6	4.77	45	7.35	9.60
68 ORANGE	13	15.07	43	10.38	11.17
69 PAMLICO	3	27.70	7	12.88	13.67
70 PASQUOTANK	3	9.84	9	6.10	6.03
71 PENDER	3	11.41	19	15.44	17.31
72 PERQUIMANS	1	9.32	7	13.67	15.06
73 PERSON	2	6.45	27	17.77	18.38
74 PITT	12	12.04	64	13.26	16.58
75 POLK	5	34.44	10	13.92	14.25
76 RANDOLPH	13	12.93	59	12.10	10.86
77 RICHMOND	1	2.17	15	6.54	6.97
78 ROBESON	9	8.39	51	9.63	12.97
79 ROCKINGHAM	15	17.46	77	18.04	17.77
80 ROWAN	12	11.45	80	15.51	14.04
81 RUTHERFORD	8	14.00	33	11.66	10.51
82 SAMPSON	12	23.68	37	14.69	16.23
83 SCOTLAND	4	11.64	21	12.43	15.01
84 STANLY	12	23.75	50	20.02	17.97
85 STOKES	6	16.57	20	11.32	11.02
86 SURRY	11	17.72	54	17.71	15.41
87 SWAIN	1	9.37	8	14.91	13.08
88 TRANSYLVANIA	4	15.41	19	14.95	11.78
89 TYRRELL	1	24.13	3	14.55	18.19
90 UNION	6	7.33	40	10.22	10.39
91 VANCE	4	10.22	15	7.83	9.89
92 WAKE	30	8.00	179	10.18	9.89
93 WARREN	2	12.07	9	10.97	19.30
94 WASHINGTON	0	0.00	7	9.63	11.94
95 WATAUGA	3	8.67	18	10.52	8.68
96 WAYNE	13	13.24	60	12.22	13.67
97 WILKES	9	14.69	48	15.83	15.45
98 WILSON	8	12.25	58	17.96	20.22
99 YADKIN	4	13.35	27	18.31	19.26
100 YANCEY	2	12.55	9	11.54	20.10

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

SUICIDE

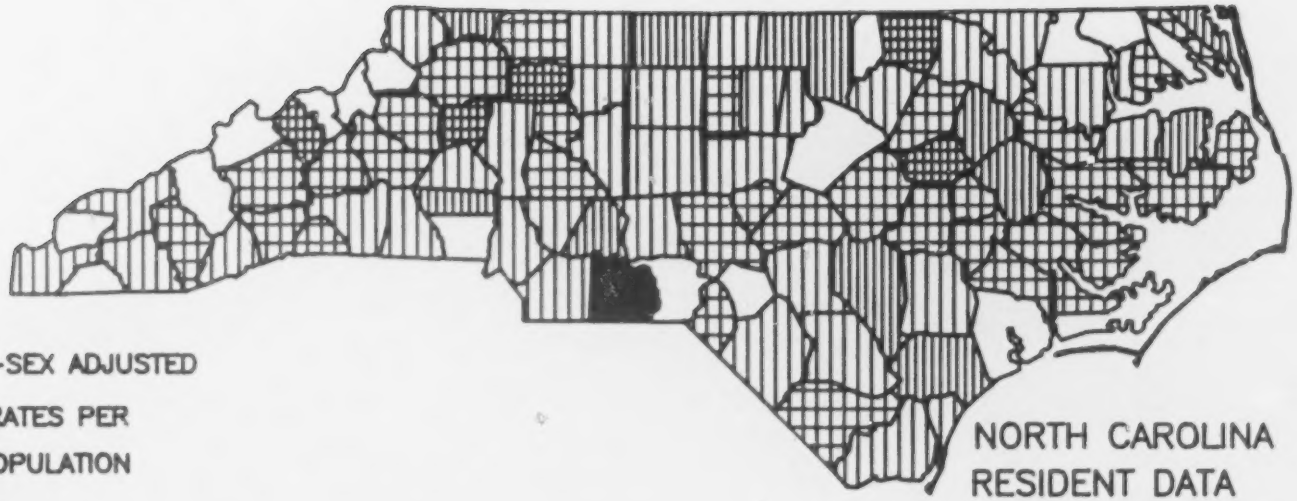


DEATHS PER
100,000 POPULATION

22.52
19.87 to 20.54
16.48 to 18.36
12.82 to 16.04
9.08 to 12.60
6.11 to 8.40

FIGURE 26.A

SUICIDE



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 22.56
- 19.26 to 20.23
- 16.15 to 18.39
- 13.41 to 15.81
- 10.33 to 13.12
- 6.03 to 10.10

FIGURE 26.B

TABLE 27

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

HOMICIDE

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	584	9.10	2816	9.01	9.01
REGIONS					
DHR I WESTERN	188	8.57	909	8.50	10.49
DHR II N. CENTRAL	127	9.39	559	8.46	8.63
DHR III S. CENTRAL	153	10.12	766	10.48	9.28
DHR IV EASTERN	116	8.54	582	8.76	7.86
HSA I WESTERN	76	7.00	385	7.20	10.15
HSA II PIEDMONT	104	8.73	467	8.01	8.55
HSA III S. PIEDMONT	112	10.11	524	9.79	10.52
HSA IV CAPITAL	98	10.34	431	9.53	8.60
HSA V CARDINAL	97	10.01	536	11.32	10.07
HSA VI EASTERN	97	8.72	473	8.65	7.64
COUNTIES					
1 ALAMANCE	10	9.52	35	6.82	7.45
2 ALEXANDER	0	0.00	5	3.75	2.87
3 ALLEGHANY	0	0.00	2	4.09	2.90
4 ANSON	1	3.81	17	12.98	11.99
5 ASHE	0	0.00	2	1.71	1.30
6 AVERY	0	0.00	1	1.33	14.60
7 BEAUFORT	4	9.35	23	10.73	10.48
8 BERTIE	4	18.92	11	10.33	9.56
9 BLADEN	5	16.24	16	10.41	7.18
10 BRUNSWICK	5	10.07	19	8.34	8.84
11 BUNCOMBE	14	8.16	59	7.02	9.85
12 BURKE	5	6.55	31	8.23	10.32
13 CABARRUS	6	6.40	30	6.51	9.25
14 CALDWELL	4	5.66	27	7.77	10.08
15 CAMDEN	1	16.71	1	3.40	3.47
16 CARTERET	1	1.98	13	5.36	6.00
17 CASWELL	0	0.00	6	5.41	3.82
18 CATAWBA	10	8.63	39	6.92	9.75
19 CHATHAM	4	11.01	25	14.11	12.95
20 CHEROKEE	1	4.78	9	8.90	8.15
21 CHOWAN	1	7.38	5	7.60	9.61
22 CLAY	0	0.00	2	5.64	4.77
23 CLEVELAND	4	4.63	50	11.71	13.16
24 COLUMBUS	2	3.78	25	9.59	8.39
25 CRAVEN	6	7.47	32	8.17	7.55
26 CUMBERLAND	33	12.80	143	11.22	10.34
27 CURRITUCK	0	0.00	3	4.58	5.27
28 DARE	1	5.00	4	4.56	5.71
29 DAVIDSON	11	8.91	44	7.41	9.38
30 DAVIE	2	7.29	3	2.18	3.00
31 DUPLIN	3	7.20	17	8.18	7.41
32 DURHAM	22	13.00	99	12.15	9.65
33 EDGECOMBE	10	16.91	37	12.68	9.44
34 FORSYTH	35	13.21	137	10.60	10.23
35 FRANKLIN	4	11.36	29	17.56	15.51
36 GASTON	14	8.10	78	9.16	11.31
37 GATES	1	10.32	5	10.67	7.07
38 GRAHAM	0	0.00	3	8.40	7.11
39 GRANVILLE	4	10.46	25	13.53	11.75
40 GREENE	0	0.00	4	4.84	2.79
41 GUILFORD	29	8.69	142	8.67	8.14

* SEE SECTION I

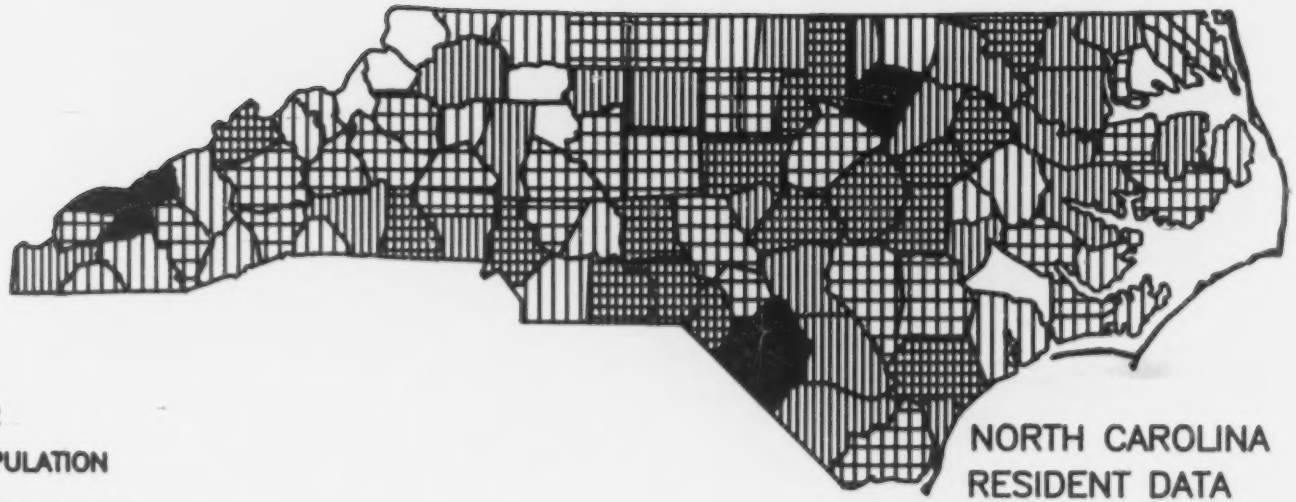
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
HOMICIDE CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	5	8.83	30	10.71	9.18
43 HARNETT	5	7.69	39	12.35	12.99
44 HAYWOOD	3	6.24	12	5.02	8.00
45 HENDERSON	4	5.88	21	6.37	8.88
46 HERTFORD	3	12.57	11	9.21	6.36
47 HOKE	1	4.17	9	7.89	6.77
48 HYDE	1	17.25	2	6.76	8.64
49 IREDELL	7	7.78	43	9.83	11.28
50 JACKSON	1	3.72	9	6.69	9.48
51 JOHNSTON	8	10.09	45	11.76	13.41
52 JONES	0	0.00	1	2.02	2.72
53 LEE	6	14.49	18	8.95	9.65
54 LENOIR	9	14.91	31	10.25	8.73
55 LINCOLN	4	8.43	15	6.59	7.17
56 MCDOWELL	2	5.50	14	7.72	8.80
57 MACON	1	4.31	4	3.49	19.06
58 MADISON	3	17.26	12	13.94	10.66
59 MARTIN	1	3.72	13	9.75	8.35
60 MECKLENBURG	61	13.08	293	13.20	11.74
61 MITCHELL	1	6.86	4	5.53	3.91
62 MONTGOMERY	1	4.12	14	11.77	11.89
63 MOORE	5	8.69	20	7.26	8.00
64 NASH	3	4.14	34	9.60	9.45
65 NEW HANOVER	10	8.59	49	8.71	9.12
66 NORTHAMPTON	5	22.47	14	12.51	6.21
67 ONSLOW	8	6.36	32	5.23	5.74
68 ORANGE	6	6.95	29	7.00	6.69
69 PAMLICO	0	0.00	2	3.68	3.45
70 PASQUOTANK	1	3.28	8	5.43	4.34
71 PENDER	2	7.61	16	13.00	10.69
72 PERQUIMANS	0	0.00	1	1.95	1.69
73 PERSON	3	9.68	13	8.55	7.81
74 PITT	6	6.02	27	5.59	5.09
75 POLK	2	13.77	4	5.57	11.48
76 RANDOLPH	11	10.94	38	7.79	12.46
77 RICHMOND	6	13.06	31	13.53	13.54
78 ROBESON	13	12.12	93	17.56	13.95
79 ROCKINGHAM	1	1.16	27	6.32	6.69
80 ROWAN	12	11.45	37	7.17	8.15
81 RUTHERFORD	9	15.75	25	8.83	9.83
82 SAMPSON	4	7.89	20	7.94	7.57
83 SCOTLAND	4	11.64	25	14.80	11.74
84 STANLY	2	3.95	9	3.60	4.01
85 STOKES	2	5.52	14	7.92	8.86
86 SURRY	2	3.22	17	5.57	7.43
87 SWAIN	1	9.37	9	16.77	16.94
88 TRANSYLVANIA	4	15.41	5	3.93	3.44
89 TYRRELL	1	24.13	2	9.70	15.48
90 UNION	6	7.33	19	4.85	6.34
91 VANCE	12	30.66	21	10.96	8.89
92 WAKE	29	7.74	123	6.99	6.89
93 WARREN	0	0.00	4	4.87	1.81
94 WASHINGTON	2	13.64	5	6.88	4.77
95 WATAUGA	1	2.89	3	1.75	1.41
96 WAYNE	17	17.32	65	13.24	11.40
97 WILKES	5	8.16	30	9.89	12.55
98 WILSON	3	4.59	40	12.38	11.36
99 YADKIN	1	3.33	4	2.71	2.10
100 YANCEY	1	6.27	3	3.84	3.23

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

HOMICIDE



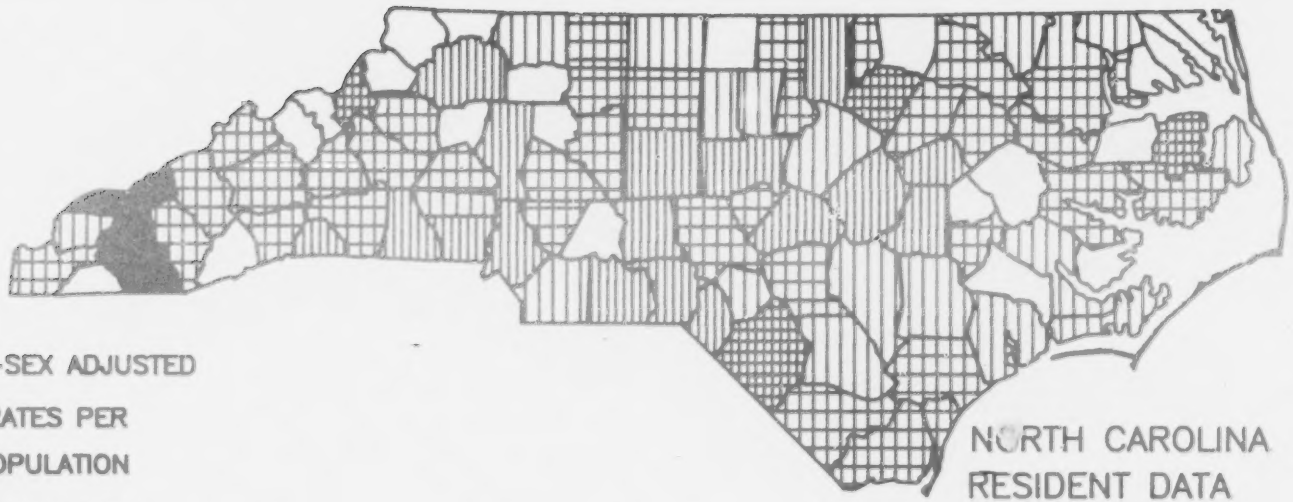
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

DEATHS PER
100,000 POPULATION

	16.77 to 17.57
	11.72 to 14.81
	8.56 to 11.22
	6.33 to 8.40
	3.41 to 5.65
	1.33 to 2.71

FIGURE 27.A

HOMICIDE



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 16.95 to 19.06
- 13.96 to 15.51
- 11.29 to 13.55
- 7.82 to 10.70
- 5.71 to 7.58
- 1.30 to 5.28

FIGURE 27.B

TABLE 28

MORTALITY STATISTICS FOR 1987

NORTH CAROLINA RESIDENTS

INFANT DEATHS

GEOGRAPHICAL AREA	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
NORTH CAROLINA	1134	12.13	5439	12.27	0.00
REGIONS					
DHR I WESTERN	372	12.31	1583	11.25	0.00
DHR II N. CENTRAL	205	11.26	1058	12.45	0.00
DHR III S. CENTRAL	301	12.61	1463	13.00	0.00
DHR IV EASTERN	256	12.07	1335	12.73	0.00
HSA I WESTERN	152	11.22	689	10.76	0.00
HSA II PIEDMONT	180	11.26	908	12.16	0.00
HSA III S. PIEDMONT	220	13.20	894	11.66	0.00
HSA IV CAPITAL	183	13.17	841	13.36	0.00
HSA V CARDINAL	172	11.15	951	12.54	0.00
HSA VI EASTERN	227	12.62	1156	13.00	0.00
COUNTIES					
1 ALAMANCE	11	7.69	66	10.25	0.00
2 ALEXANDER	4	11.59	20	11.81	0.00
3 ALLEGHANY	4	52.63	4	8.56	0.00
4 ANSON	2	5.79	29	16.79	0.00
5 ASHE	2	8.77	11	9.59	0.00
6 AVERY	2	10.58	5	5.30	0.00
7 BEAUFORT	9	15.65	34	12.42	0.00
8 BERTIE	4	12.19	28	17.65	0.00
9 BLADEN	10	27.39	27	14.45	0.00
10 BRUNSWICK	3	4.44	26	8.21	0.00
11 BUNCOMBE	23	9.98	96	9.22	0.00
12 BURKE	6	5.98	40	9.13	0.00
13 CABARRUS	18	14.45	68	11.21	0.00
14 CALDWELL	5	5.35	42	9.63	0.00
15 CAMDEN	1	17.54	3	8.77	0.00
16 CARTERET	8	11.04	39	10.86	0.00
17 CASWELL	1	4.00	11	8.71	0.00
18 CATAWBA	25	15.50	99	13.75	0.00
19 CHATHAM	5	9.39	30	11.79	0.00
20 CHEROKEE	3	13.39	9	8.11	0.00
21 CHOWAN	0	0.00	14	14.83	0.00
22 CLAY	1	14.49	3	7.85	0.00
23 CLEVELAND	18	14.71	84	15.08	0.00
24 COLUMBUS	6	8.24	50	13.00	0.00
25 CRAVEN	13	8.38	94	11.96	0.00
26 CUMBERLAND	72	13.55	350	13.10	0.00
27 CURRITUCK	5	27.02	17	17.72	0.00
28 DARE	1	3.23	9	6.77	0.00
29 DAVIDSON	22	13.30	91	11.76	0.00
30 DAVIE	2	6.41	16	10.85	0.00
31 DUPLIN	7	12.23	33	11.82	0.00
32 DURHAM	35	13.14	159	13.43	0.00
33 EDGECOMBE	13	14.23	72	16.46	0.00
34 FORSYTH	36	9.87	218	12.81	0.00
35 FRANKLIN	3	6.25	30	14.11	0.00
36 GASTON	36	14.38	171	14.36	0.00
37 GATES	2	16.26	12	19.01	0.00
38 GRAHAM	1	11.11	3	6.60	0.00
39 GRANVILLE	6	11.51	34	14.31	0.00
40 GREENE	3	16.04	15	14.04	0.00
41 GUILFORD	61	13.24	285	13.24	0.00

* SEE SECTION I

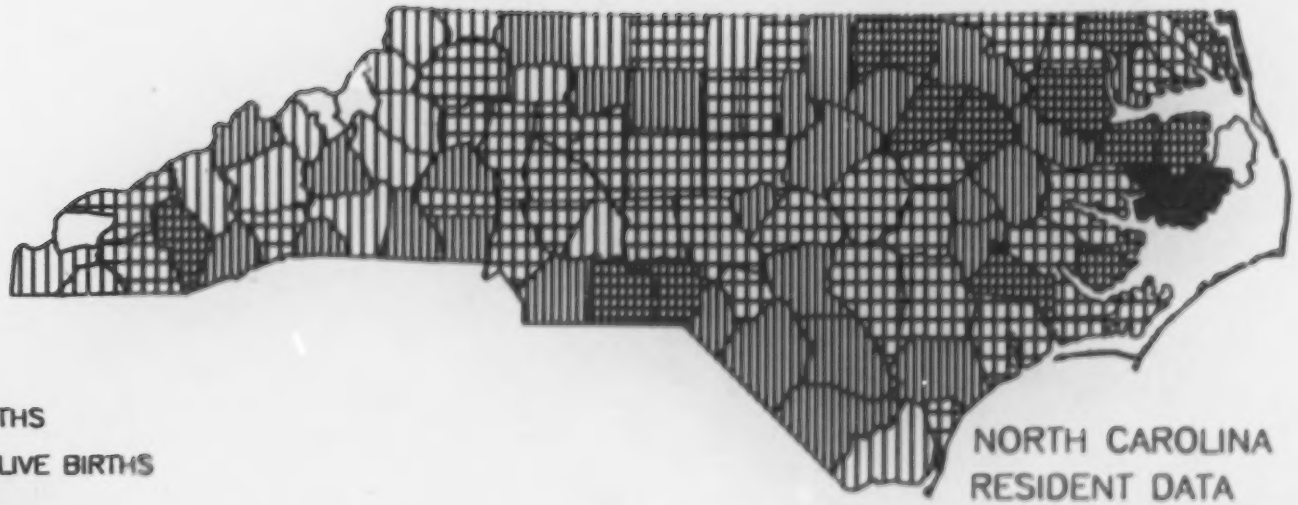
MORTALITY STATISTICS FOR 1987, NORTH CAROLINA RESIDENTS
INFANT DEATHS CONT'D.

COUNTIES (CONT'D)	NUMBER OF DEATHS 1987	DEATH RATE* 1987	NUMBER OF DEATHS 1983-87	DEATH RATE* 1983-87	ADJUSTED DEATH RATE+ 1983-87
42 HALIFAX	10	12.48	61	14.64	0.00
43 HARNETT	9	7.72	59	11.06	0.00
44 HAYWOOD	5	9.17	20	7.66	0.00
45 HENDERSON	12	14.61	40	10.43	0.00
46 HERTFORD	4	12.69	21	11.89	0.00
47 HOKE	3	7.81	18	10.23	0.00
48 HYDE	1	15.62	8	21.97	0.00
49 IREDELL	18	14.93	65	11.62	0.00
50 JACKSON	4	15.09	24	17.30	0.00
51 JOHNSTON	14	12.71	54	10.52	0.00
52 JONES	4	30.53	12	18.20	0.00
53 LEE	5	8.26	40	13.35	0.00
54 LENOIR	13	16.73	55	14.02	0.00
55 LINCOLN	6	8.98	31	10.25	0.00
56 MCDOWELL	4	8.71	31	14.41	0.00
57 MACON	4	18.43	14	11.82	0.00
58 MADISON	2	10.47	12	13.11	0.00
59 MARTIN	5	13.15	26	14.05	0.00
60 MECKLENBURG	98	12.69	385	11.18	0.00
61 MITCHELL	1	6.53	6	6.62	0.00
62 MONTGOMERY	3	9.64	19	12.36	0.00
63 MOORE	3	3.76	37	10.36	0.00
64 NASH	14	12.35	85	16.16	0.00
65 NEW HANOVER	17	11.30	81	11.09	0.00
66 NORTHAMPTON	8	28.16	19	12.35	0.00
67 ONSLOW	36	10.85	188	11.40	0.00
68 ORANGE	10	9.09	54	10.95	0.00
69 PAMLICO	3	21.42	13	18.62	0.00
70 PASQUOTANK	4	8.42	28	12.14	0.00
71 PENDER	3	9.58	22	13.73	0.00
72 PERQUIMANS	3	19.10	8	11.20	0.00
73 PERSON	5	11.79	23	12.39	0.00
74 PITT	25	16.16	102	14.31	0.00
75 POLK	3	21.27	9	14.24	0.00
76 RANDOLPH	16	11.52	69	10.73	0.00
77 RICHMOND	11	18.42	47	16.30	0.00
78 ROBESON	19	10.56	115	13.01	0.00
79 ROCKINGHAM	15	13.19	68	12.47	0.00
80 ROWAN	18	12.33	73	10.78	0.00
81 RUTHERFORD	6	8.43	28	7.89	0.00
82 SAMPSON	6	9.91	36	11.59	0.00
83 SCOTLAND	5	9.65	35	13.74	0.00
84 STANLY	11	16.39	26	8.16	0.00
85 STOKES	4	9.45	18	8.53	0.00
86 SURRY	10	13.81	52	14.72	0.00
87 SWAIN	2	12.19	10	11.97	0.00
88 TRANSYLVANIA	3	10.56	19	13.14	0.00
89 TYRRELL	3	42.25	5	19.41	0.00
90 UNION	15	12.51	74	13.21	0.00
91 VANCE	7	12.50	44	15.71	0.00
92 WAKE	89	15.69	354	14.04	0.00
93 WARREN	4	16.73	19	16.42	0.00
94 WASHINGTON	2	10.47	19	17.89	0.00
95 WATAUGA	4	11.62	15	7.88	0.00
96 WAYNE	17	11.00	89	11.22	0.00
97 WILKES	8	10.29	38	10.19	0.00
98 WILSON	9	9.80	46	10.13	0.00
99 YADKIN	2	4.92	14	8.39	0.00
100 YANCEY	0	0.00	7	8.25	0.00

* SEE SECTION I

STATE CENTER FOR HEALTH STATISTICS
NORTH CAROLINA DEPARTMENT OF HUMAN RESOURCES

INFANT DEATH RATES



NORTH CAROLINA
RESIDENT DATA
1983 – 1987

INFANT DEATHS
PER 1,000 LIVE BIRTHS

- 22.0
- 15.7 to 19.4
- 12.8 to 15.1
- 10.1 to 12.5
- 7.7 to 9.6
- 5.3 to 6.8

FIGURE 28

VI. TABLES AND FIGURES: MULTIPLE CONDITIONS PRESENT AT DEATH 1983-87

TABLE 29

DEATHS BY SELECTED UNDERLYING CAUSE WITH FREQUENCY OF MENTIONED CONDITIONS, NORTH CAROLINA RESIDENTS, 1987

	Underlying Cause of Death	Total Under-lying*	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)											
			1	2	3	4	5	6	7	8	9	10	11	12
1	Diseases of heart	19498	19498	7750	8913	2549	1944	8353	842	13	106	26	166	84
2	Acute myocardial infarction	7706	7706	7706	2994	911	501	3013	269	4	38	9	59	25
3	Other forms of ischemic heart disease	5822	5822	0	5822	603	531	3261	245	5	35	5	48	26
4	Hypertension with or without renal disease	275	141	0	0	273	20	66	16	0	0	0	1	0
5	Cerebrovascular disease	4522	1543	82	304	748	4522	1444	159	1	30	4	15	20
6	Atherosclerosis	509	327	0	0	0	0	509	18	1	5	0	2	2
7	Cancer	12124	3078	69	424	319	339	478	12124	342	1319	616	3453	1045
8	Stomach	330	73	2	14	6	10	16	330	330	4	0	2	1
9	Colon, rectum, rectosigmoid junction & anus	1283	321	7	41	50	31	58	1283	1	1283	0	6	5
10	Pancreas	613	149	5	24	21	21	24	613	1	0	613	3	1
11	Trachea, bronchus and lung	3423	806	19	144	67	91	137	3423	5	8	2	3423	7
12	Female breast	1017	209	1	16	30	17	17	1017	0	4	0	2	1017
13	Cervix uteri	144	50	0	3	3	2	4	144	0	1	0	0	3
14	Ovary & other uterine adnexa	284	68	0	3	8	5	6	284	0	1	1	0	1
15	Prostate	784	258	9	42	22	27	51	784	0	4	0	3	0
16	Leukemia	403	136	3	10	3	22	15	403	0	1	0	2	5
17	Diabetes Mellitus	1025	730	186	260	210	208	319	27	2	1	0	4	7
18	Pneumonia & Influenza	1613	692	37	140	43	242	209	130	2	9	1	27	9
19	Chronic obstructive pulmonary disease & allied conditions	1794	838	53	170	56	72	191	112	1	7	3	49	6
20	Chronic liver disease and cirrhosis	678	184	3	14	10	13	22	16	1	2	0	3	2
21	Nephritis, nephrotic syndrome & nephrosis	468	285	17	51	8	46	72	12	0	0	0	3	1
22	Motor vehicle accidents	1575	91	3	12	6	7	11	2	0	1	0	0	0
23	All other accidents & adverse effects	1518	358	26	55	41	52	74	38	0	4	2	7	6
24	Suicide	787	32	0	7	2	5	9	17	0	1	1	2	1
25	Homicide	584	30	0	3	0	1	3	1	0	0	0	0	0
	TOTAL DEATHS**	55319	30942	8411	10728	4562	8072	12418	13863	367	1538	662	3797	1213

TABLE 29 — Continued

DEATHS BY SELECTED UNDERLYING CAUSE WITH FREQUENCY OF MENTIONED CONDITIONS, NORTH CAROLINA RESIDENTS, 1987

	Underlying Cause of Death	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)													
		13	14	15	16	17	18	19	20	21	22	23	24	25	Alcohol
1	Diseases of heart	4	13	147	38	2105	707	1506	108	854	9	509	0	2	223
2	Acute myocardial infarction	1	4	47	10	877	150	502	20	225	1	105	0	1	60
3	Other forms of ischemic heart disease	1	4	44	13	660	222	543	38	286	5	189	0	0	80
4	Hypertension with or without renal disease	1	0	6	0	44	13	12	0	18	0	7	0	0	4
5	Cerebrovascular disease	1	3	32	5	439	389	180	11	122	1	193	0	0	33
6	Atherosclerosis	1	0	1	2	46	46	38	1	71	1	22	0	0	4
7	Cancer	146	292	820	419	441	705	654	35	400	0	225	0	0	49
8	Stomach	0	1	1	1	11	12	6	3	5	0	11	0	0	1
9	Colon, rectum, rectosigmoid junction & anus	0	2	5	0	47	36	29	3	41	0	27	0	0	5
10	Pancreas	1	0	3	0	42	12	12	3	16	0	10	0	0	4
11	Trachea, bronchus and lung	0	0	14	6	113	274	405	3	36	0	48	0	0	10
12	Female breast	0	0	0	0	39	35	22	3	19	0	12	0	0	0
13	Cervix uteri	144	0	0	0	4	3	2	0	18	0	2	0	0	0
14	Ovary & other uterine adnexa	0	284	0	0	11	6	1	0	8	0	5	0	0	0
15	Prostate	0	0	784	1	28	47	28	1	67	0	16	0	0	1
16	Leukemia	0	2	1	403	8	52	5	1	22	0	12	0	0	2
17	Diabetes Mellitus	0	0	4	0	1025	48	18	6	145	1	27	0	0	9
18	Pneumonia & Influenza	0	1	13	13	94	1613	131	26	95	0	27	0	0	27
19	Chronic obstructive pulmonary disease & allied conditions	0	0	15	4	44	305	1794	9	51	0	48	0	0	20
20	Chronic liver disease and cirrhosis	0	0	2	0	32	35	29	672	48	0	19	0	0	300
21	Nephritis, nephrotic syndrome & nephrosis	0	0	0	2	37	39	25	4	468	0	16	1	0	2
22	Motor vehicle accidents	0	0	0	1	2	6	7	2	5	1575	7	0	1	151
23	All other accidents & adverse effects	1	0	3	1	42	29	46	9	38	0	1518	0	0	199
24	Suicide	0	0	1	0	4	0	10	2	0	1	1	787	0	45
25	Homicide	0	0	0	0	1	1	2	2	2	0	4	0	584	26
	TOTAL DEATHS**	157	314	1085	506	4743	4593	4802	1001	2986	1593	3250	788	588	1462

*Numbers shown here are the final underlying frequencies. They are sometimes larger than numbers shown on the diagonal due to the fact that a sequence of conditions may imply an underlying cause that is not specifically mentioned on the death certificate.

**Differences between these totals and the summation over causes are attributable to causes not given in the table.

Note: In this table, a death is counted only once in a condition category although several conditions within the category may have been reported or a single condition may have been recorded more than once on the death certificate.

TABLE 30

NUMBER OF DEATHS WITH SELECTED PAIRS OF CONDITIONS MENTIONED TOGETHER, NORTH CAROLINA RESIDENTS, 1987

	Conditions Mentioned on Death Certificate	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)											
		1	2	3	4	5	6	7	8	9	10	11	12
1	Diseases of heart	30942	8411	10728	3552	4176	11060	4269	96	485	183	1046	339
2	Acute myocardial infarction	8411	8411	3127	986	643	3168	357	7	47	15	82	32
3	Other forms of ischemic heart disease	10728	3127	10728	1137	1154	6299	828	23	100	34	224	61
4	Hypertension with or without renal disease	3552	986	1137	4562	1356	1312	439	9	65	24	82	56
5	Cerebrovascular disease	4176	643	1154	1356	8072	2873	600	12	77	27	123	58
6	Atherosclerosis	11060	3168	6299	1312	2873	12418	963	24	136	33	217	74
7	Cancer	4269	357	828	439	600	963	13863	367	1538	662	3797	1213
8	Stomach	96	7	23	9	12	24	367	367	6	1	7	1
9	Colon, rectum, rectosigmoid junction & anus	485	47	100	65	77	136	1538	6	1538	1	16	12
10	Pancreas	183	15	34	24	27	33	662	1	1	662	5	1
11	Trachea, bronchus and lung	1046	82	224	82	123	217	3797	7	16	5	3797	12
12	Female breast	339	32	61	56	58	74	1213	1	12	1	12	1213
13	Cervix uteri	57	2	4	5	4	7	157	0	2	1	1	3
14	Ovary & other uterine adnexa	83	4	7	9	10	12	314	1	4	1	0	1
15	Prostate	461	56	121	51	84	151	1085	1	13	4	22	0
16	Leukemia	196	14	30	5	31	39	506	1	1	0	8	6
17	Diabetes Mellitus	3554	1109	1509	1121	1024	1711	577	13	69	46	131	62
18	Pneumonia & Influenza	2161	215	580	224	893	872	936	17	59	14	330	49
19	Chronic obstructive pulmonary disease & allied conditions	2990	587	1107	322	426	1242	896	10	47	17	508	34
20	Chronic liver disease and cirrhosis	370	25	73	32	35	76	61	4	7	3	6	4
21	Nephritis, nephrotic syndrome & nephrosis	1905	285	543	91	318	714	503	8	58	19	52	21
22	Motor vehicle accidents	103	5	17	6	12	17	3	0	1	0	0	0
23	All other accidents & adverse effects	1287	150	380	140	358	480	324	11	40	13	63	28
24	Suicide	32	0	7	2	5	9	17	0	1	1	2	1
25	Homicide	32	1	3	0	1	4	1	0	0	0	0	0
26	Alcohol-related conditions	460	71	135	87	51	111	64	1	6	4	15	1
	TOTAL DEATHS*	30942	8411	10728	4562	8072	12418	13863	367	1538	662	3797	1213

TABLE 30 — Continued

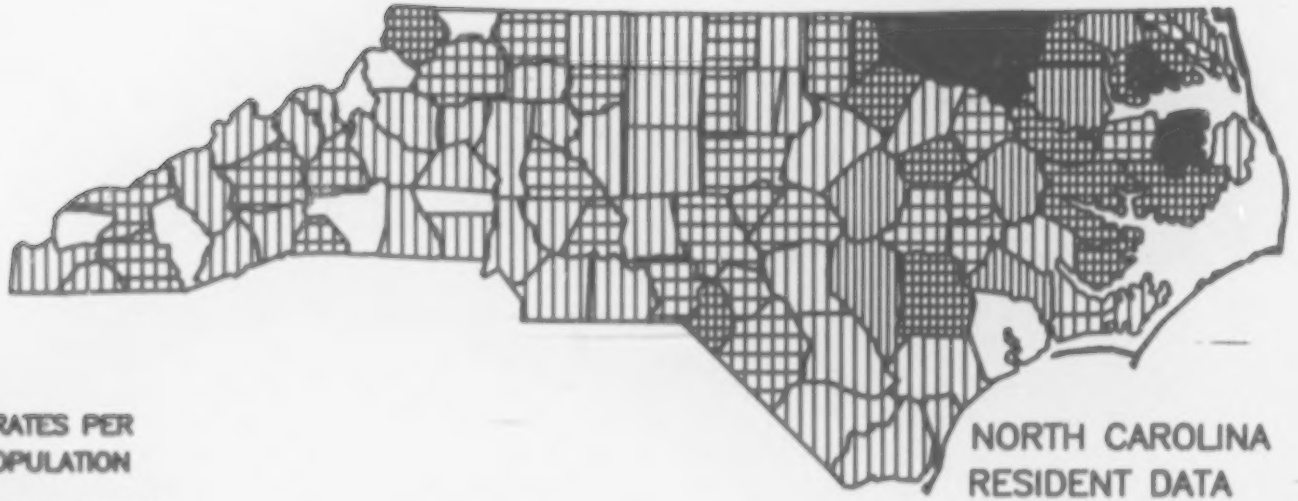
NUMBER OF DEATHS WITH SELECTED PAIRS OF CONDITIONS MENTIONED TOGETHER, NORTH CAROLINA RESIDENTS, 1987

	Conditions Mentioned on Death Certificate	Conditions Mentioned on Death Certificate (Numbers Refer to Row Titles)													
		13	14	15	16	17	18	19	20	21	22	23	24	25	26
1	Diseases of heart	57	83	461	196	3554	2161	2990	370	1905	103	1287	32	32	460
2	Acute myocardial infarction	2	4	56	14	1109	215	587	25	285	5	150	0	1	71
3	Other forms of ischemic heart disease	4	7	121	30	1509	580	1107	73	543	17	380	7	3	135
4	Hypertension with or without renal disease	5	9	51	5	1121	224	322	32	91	6	140	2	0	87
5	Cerebrovascular disease	4	10	84	31	1024	893	426	35	318	12	358	5	1	51
6	Atherosclerosis	7	12	151	39	1711	872	1242	76	714	17	480	9	4	111
7	Cancer	157	314	1085	506	577	936	896	61	503	3	324	17	1	64
8	Stomach	0	1	1	1	13	17	10	4	8	0	11	0	0	1
9	Colon, rectum, rectosigmoid junction & anus	2	4	13	1	69	59	47	7	58	1	40	1	0	6
10	Pancreas	1	1	4	0	46	14	17	3	19	0	13	1	0	4
11	Trachea, bronchus and lung	1	0	22	8	131	330	508	6	52	0	63	2	0	15
12	Female breast	3	1	0	6	62	49	34	4	21	0	28	1	0	1
13	Cervix uteri	157	0	0	0	6	3	2	0	19	0	5	0	0	0
14	Ovary & other uterine adnexa	0	314	0	2	11	9	1	0	9	0	5	0	0	0
15	Prostate	0	0	1085	2	48	86	70	7	85	0	25	1	0	2
16	Leukemia	0	2	2	506	11	71	13	1	30	1	16	0	0	2
17	Diabetes Mellitus	6	11	48	11	4743	330	291	60	437	3	181	4	1	59
18	Pneumonia & Influenza	3	9	86	71	330	4593	649	78	327	6	186	0	1	88
19	Chronic obstructive pulmonary disease & allied conditions	2	1	70	13	291	649	4802	65	212	8	187	10	3	88
20	Chronic liver disease and cirrhosis	0	0	7	1	60	78	65	1001	80	2	42	2	2	385
21	Nephritis, nephrotic syndrome & nephrosis	19	9	85	30	437	327	212	80	2986	5	164	1	2	50
22	Motor vehicle accidents	0	0	0	1	3	6	8	2	5	1593	8	1	1	151
23	All other accidents & adverse effects	5	5	25	16	181	186	187	42	164	8	3250	1	4	239
24	Suicide	0	0	1	0	4	0	10	2	1	1	1	788	0	45
25	Homicide	0	0	0	0	1	1	3	2	2	1	4	0	588	27
26	Alcohol-related conditions	0	0	2	2	59	88	88	385	50	151	239	45	27	1462
	TOTAL DEATHS*	157	314	1085	506	4743	4593	4802	1001	2986	1593	3250	788	588	1462

*Differences between these totals and the summation over causes are attributable to causes not given in the table and to multiple counting of a condition if it appears in combination with more than one other condition on a certificate.

Note: In this table, a death is counted only once in a condition category although several conditions within the category may have been reported or a single condition may have been recorded more than once on the death certificate. Also, the ICD-9 codes used to count hypertension and atherosclerosis mentions are different from the codes used to count underlying cause elsewhere in this report. For further explanation, see *Multiple Conditions Present at Death: A Special Study*, SCHS, 1982.

CONDITIONS MENTIONED– HYPERTENSION



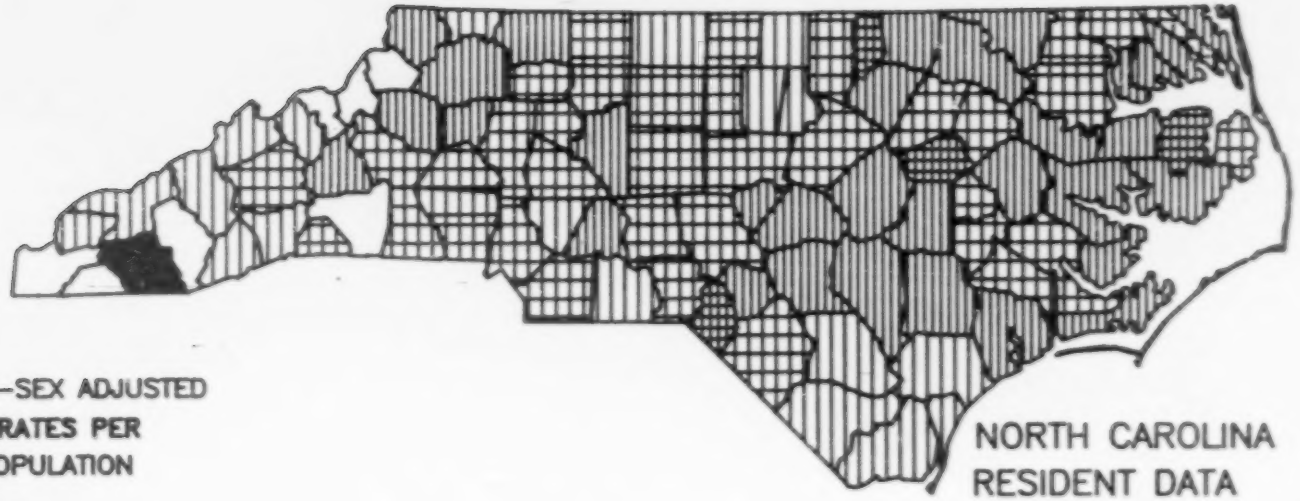
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

MORTALITY RATES PER
100,000 POPULATION

- 136.61 to 155.30
- 108.31 to 128.16
- 88.67 to 98.92
- 71.71 to 86.71
- 42.53 to 68.90
- 29.83 to 39.20

FIGURE 29.A

CONDITIONS MENTIONED– HYPERTENSION



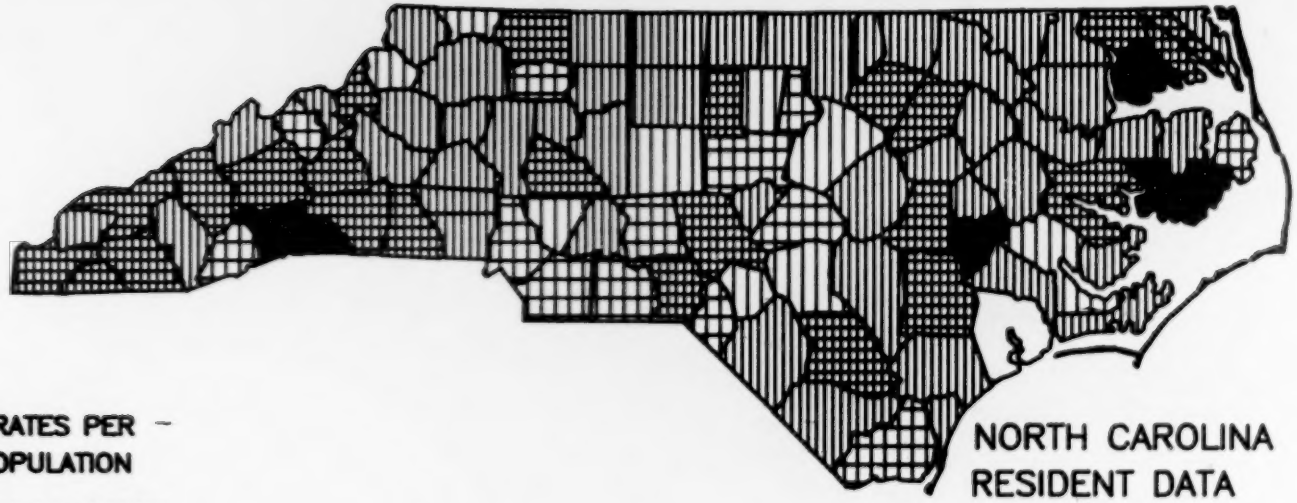
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 134.60
- 105.18 to 115.70
- 76.02 to 99.94
- 58.84 to 72.50
- 40.83 to 57.04
- 29.20 to 38.27

FIGURE 29.B

CONDITIONS MENTIONED– ATHEROSCLEROSIS



MORTALITY RATES PER 100,000 POPULATION

- 307.21 to 348.66
- 256.16 to 292.65
- 191.50 to 249.27
- 154.00 to 184.02
- 111.55 to 147.70
- 83.36

FIGURE 30.A

CONDITIONS MENTIONED– ATHEROSCLEROSIS

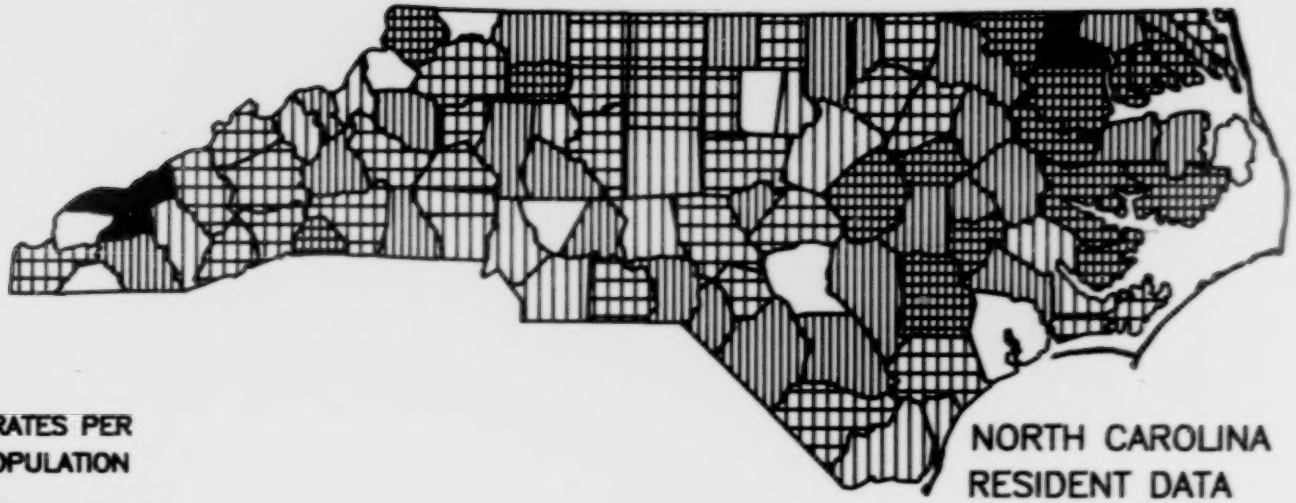
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 337.70 to 337.90
- 241.53 to 289.93
- 197.30 to 235.93
- 172.88 to 191.15
- 132.76 to 162.67
- 97.61 to 124.19

FIGURE 30.B

CONDITIONS MENTIONED– DIABETES



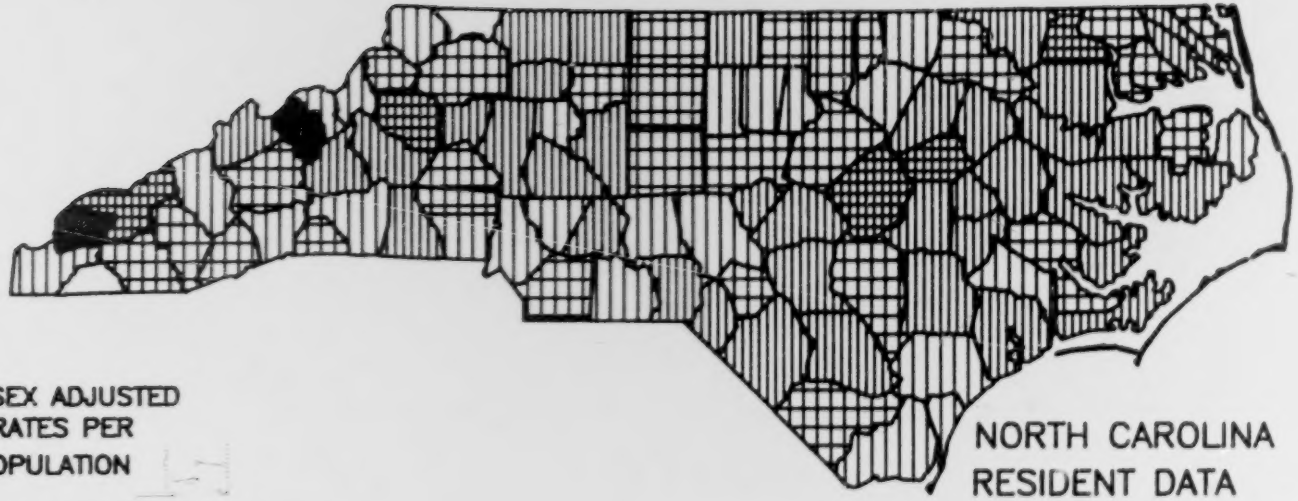
NORTH CAROLINA
RESIDENT DATA
1983 – 1987

MORTALITY RATES PER
100,000 POPULATION

- 111.83 to 123.14
- 91.38 to 104.46
- 76.09 to 89.39
- 59.80 to 75.14
- 49.05 to 58.19
- 32.53 to 46.47

FIGURE 31.A

CONDITIONS MENTIONED– DIABETES



AGE–RACE–SEX ADJUSTED
MORTALITY RATES PER
100,000 POPULATION

- 97.61 to 127.99
- 91.37 to 95.19
- 72.19 to 85.82
- 61.48 to 71.24
- 40.13 to 60.08
- 21.17 to 23.61

FIGURE 31.B

VII. REFERENCES

1. SAS Institute Inc. *SAS User's Guide: Statistics, 1982 Edition*, Cluster Procedure. Cary, N.C., 1982.

2. Kleinman, J.C. "Infant Mortality," *Statistical Notes for Health Planners*. Number 2, National Center for Health Statistics, Rockville, Maryland, July 1976.

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